je Kliming Journal,

RAILWAY

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1464.—Vol. XXXIII.

LONDON, SATURDAY, SEPTEMBER 12, 1863.

STAMPED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

MR. JAMES CROFTS, SHAREBROKER,
Mr. Chop'rs transacts business, in the way of PUECHASE or SALE, in every description of stocks, but particularly in BEITISH MIXES, in no case departing from the position of a broker, at net prices. All orders meet with the utmost punctuality and saral, and advice given as to the nature and eligibility of INVESTMENTS, when required, EXCHANGES OF STOCK effected on the most advantageous basis, subject only to one commission.

ommission.

Mr. Crorrs has business in North Wales Lead Mines, Cefa Cilcen, Pentre Lygan, Central Minera, Pant-y-Pydew, Twelve Apostics Amalgamated, and Minera Union, and refers to hisietter in the Journal, p. , on their peculiar merits as investments.

*** BUYER or SELLEH of Chiverton Lead shares (in 3000).

**** Telegrams, in fluctuating markets like the present, generally assist in securing

safe business.

Mr. Cnorrs' Circular, No. 21, contains:—An Article on the Market, and the Harvest.
On the Wrexham and Holywell Lead Mines. Most Important Reports from Twelve Apostles, Pant-y-Pydew, Minera Union, East Lovell, Brynford Hall, and Uny. Single copy six stamps.

MR. JAMES LANE, No. 44, THREADNEEDLE STREET,
LONDON, E.C.

JAMES LAWE has FOR SALE, at not t prices:—20 Arthur; 30 Boscawen, £2½; 5 Basset
and Grylls, £24½; 100 Bettany Silver-Lead (Limited), £2½; 25 Crebor; 100 Cornubia
(25s. paid), 11s. 6d.; 20 East Carn Brea, £2; 10 East Lovell, £4½; 100 East Bronfloyd
(£2 paid up), 11s. 6d.; 20 East Carn Brea, £2; 10 East Lovell, £4½; 100 East Bronfloyd
(£2 paid up), 11s. 6d.; 50 New South Caradon; 20 New Wheal Martha, £2; 10 North
Crofty; 20 North Jane, 38s.; 100 North Minera (preference), 5s.; 100 Silver Mountain,
22s.; 30 St. Just Consols, 15s.; 20 St. Just United, £3½; 100 Sortridge Consols, 6s. 6d.;
and 10 Tremayne, £10½.

STOCK AND SHAREDEALER,—MR. PETER WATSON, ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES, 79, OLD BROAD-STREET, LONDON, E.C.
TELEGRAPHIC MESSAGES to BUY or SELL Railway, Bank, Mine, and other shares and Stocks, punctually attended to on commission, or at noti prices for cash, or for fortnightly settlements, with advice as to purchases or sales.

[Eighten years' experience.

(Two in Cornwall and Sixteen in London.)
Bankers: Union Bank of London.

Every information can be obtained on personal application or by letter, as to purchases and sales of mine and other shares, and the best investment for capital.

From the close proximity of his Offices to the Stock Exchange, as well as the Mining Exchange, Peter Warson is enabled to act with promptitude on all orders entrusted to him, which at all times are carried out with punctuality, and to the best advantage of his clients.—September 11, 1853.

MR. LELEAN, 11, ROYAL EXCHANGE, LONDON, E.C., has FOR SALE the FOLLOWING MINING SHARES, free of commission:

R. LELEAN, 11, ROYAL EXCHANGE, LONDON, E.C., has FOR SALE the FOLLOWING MINING SHARES, free of commission:—

3 Bryn Gwlog.

5 Basset.

5 Bedford United, £23/4.

40 Camborne Vean, 27s 6d.

1 Condurrow.

4 Cook's Kitchen, £25.

50 Cirifford Amal., £31/4.

50 Cardigan Consols.

50 Cormbrane.

90 Orath Buller, £6.

10 North Buller, £6.

10 North Prances.

10 North Drances.

10 North Crofty, £33/4.

10 East Caradon, £28 7s 6d.

10 East Granville, £5 113

5 East Caradon, £28 7s 6d.

10 East Forewille, £5 113

5 East Caradon, £28 7s 6d.

10 East Basset, £79/5.

10 East Jane.

10 East Forewille, £3 113

5 East Caradon, £28 7s 6d.

10 East Basset, £79/5.

10 East Fortune, £29/4.

10 Garreg, 2s. 6d.

10 Grant Retallack.

10 Great Retallack.

11 East Portune, £29/4.

12 East Portyldence, £3.

13 East Granwille, £5 18 9

14 West Seton.

15 Event Providence, £3.

16 Great Retallack.

17 Event Providence, £3.

18 Rosewarn Consols.

18 Rosewarn Consols.

18 Rosewarn Consols.

19 Wheal Crubor, £3.

10 Wheal Crubor, £3.

11 Wheal Maxican.

12 West Churcon, £3.

13 Wheal Margaret, £5.

14 Wheal Crubor, £5.

15 Trelyon.

10 Torrod, £19/5.

10 Torrodden, £12.

10 Torrod, £19/5.

10 Torrodon, £3.

10 Torrodon, £3.

10 Torrodon, £3.

10 Torrodon, £3.

10 Wheal Crubor.

10

Mr. Lelean recommends the immediate purchase of North Minera, Rosewarne Unite ast Providence, and West Grylls shares.—September 11, 1863.

WILLIAM ALLISON, STOCK, SHARE, AND MINING BROKER, 29, AUSTINFRIARS, LONDON, E.C. Orders to buy or sell, accompanied by references, punctually attended to.

OSEPH GREGORY, STOCK AND SHAREBROKER, 2, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Commission on purchase and eale of mining shares, 1½ per cent.

Bankers: City Bank.

MR. T. ROSEWARNE, 81, OLD
INTERPRETATION OF THE ET,
CHIGOTA Amalgam., £34.
Carn Brea, £67\\(\delta\), Gonamena, £3\\(\delta\).
Clijah and Went., £9.
Davon Gf. Cons., £07\\(\delta\).
Davon Gf. Cons., £07\\(\delta\).
East Carn Brea, £3\\(\delta\).
Marke Valley, £07\(\delta\).
North Mr. Robert, 10s.

Banke Wally, 30s.
North Wh. Robert, 10s.

BROAD STREET,
North Dawn, £21s.
Analgam, £289\\(\delta\).
North Downs, £2 1s. 3d.
North Break, £3\(\delta\).
North Wh. Robert, 10s.

And is a BUYER of—
Wendron Cons., £814.
Wheal Harriett, £214.
Wheal Edward, £2 16s 3d
South Crofty, £24.

a BUERR of—
Iron Cons., £84.

li Harriett, £24.

li Edward, £2 ids 3d

creat South Tolgus, £44.

es about to invest should consult T. Rosewarne without delay.

Money advanced on good mining security.

Bankers: Bank of London.

Sept. 11, 1863.

RICHARD CLIFT, MINE SHAREDEALER late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all letterfare to be addressed.

MR. G. D. S. A. N. D. Y. S. H. A. R. E. D. E. A. I. E. R., No. 48,

10 East Carn Bres. £7%.
10 East Granville, £34,
1 East Basset, £81,
20 Drake Walls, 378. 6d.
30 Drake Walls, 378. 6d.
3 Cook's Kitchen, £24.

10 East Rosewarne, £2%.
10 Tolyadden.
20 North Doloath.
21 North Doloath.
22 Nangles.
23 Cook's Kitchen, £24.
24 East Losell.
25 East Rosewarne, £2%.
26 East Lovell.
27 East Lovell.
28 North Doloath.
29 North Doloath.
29 North Doloath.
29 North Doloath.
20 North Doloath.
20 North Doloath.
20 North Doloath.
21 North Doloath.
22 North Doloath.
23 North Doloath.
24 Correct daily price list forwarded on application.

Business transacted at the closest market prices.
A correct daily price list forwarded on application.

MESSRS. WARD AND JACKMAN, STOCK AND SHAREBROKERS, 2, ADAM'S COURT, OLD BROAD STREET, AND SHAREBROKERS, 2, ADAM'S COURT, OLD BROAD STREET, AND MINING EXCHANGE, LONDON, E.C. (ETABLISHED TEN YEARS). THANSACT BUSINESS in BRITISH AND FOREIGN MINING SHARES and OTHER SECURITIES at closest prices, not to ron commission, but not being DEALERS only execute orders confided to them.

Telegraphic messages to buy or sell shares of every description promptly executed for immediate cash, or the fortnightly settlements.

Commission, 14 per cent. on all transactions.

Sept. 11, 1863. Bankers: London and Westminster, Lothbury.

Sept. 11, 1863. Bankers: London and Westminster, Lotbbury.

M. R. GEORGE BUDGE, SHAREBROKER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 16 years), has FOR SALE, at nett prices:—25 North Grambler, £4½; 50 Camborne Venn, 51s. 64.; 35 East Enssell; 8 South Frances, £66; 25 Generille, £5 16; 36. 4; 40 East Grenville, £5 16; 2 Wheal Builer; 2 Soton, £520; 20 East Caradon, £28.64; 50 North Pool, £3; 10 Grambler; 30 Grant Caradon, £28.64; 100 Molland, 1s. 64.; 100 West Penstruthal; 10 North Buller, £7½; 50 Harriert, £3½; 100 Wheal Follard, \$3, 150 South Grenville, 50 Orack Walls, \$7s.; 50 Ledy Berths, 10s. 64; 100 Illogan, £6s. 64; 200 Garrag, 2, 50 Drake Walls, \$7s.; 50 Ledy Berths, 10s. 64; 100 Illogan, £6s. 64; 200 Garrag, 2, 50 Drake Walls, \$7s.; 50 Ledy Berths, 10s. 64; 100 South Grenville, 50 Cara Cleron, £6s. 64; 200 Wheal Unity, 16s.; 50 Great Wheal Busy, £6; 160 Cara Cleron, £6s. 64; 200 Santa Barbara, 11s.; 250 Great Newleys, £6; 150 Wheal Unity, 16s.; 50 Great Wheal Busy, £6; 160 Hawkmoor, £8. 64; 200 East Clegan (folly paid), 3s. 64; 100 St. David, 5s.; 25 Gonamens, £2½; 5 Anaglie; 60 North Dolocath, £2½; 5 Great Fortune, £20; 50 North Downs, £2; 150 East Stoon, 6s. 94; 50 North Downs, £2; 150 East Stoon, 6s. 94; 50 North Pances, Dale, Ciljah and Wentworth, North Pool, Wheal Margery, and West Streetypan, 7s. 3d.—2BU YER of West Caradon, 8s. 94; 50 North Pances, Dale, Ciljah and Wentworth, North Pool, Wheal Margery, and West Starp Tor.

M O O R E, G E O R G E M O O R E,
In any business that George Moore is favoured with, in which he is the buyer, he
will give CASH ON RECEIPT OF TRANSFER. G

BUYER of Wheal Uny at £5.

WHEAL CLIFFORD AMALOAMED.—So far from there being, as was reported, any falling off in the splendid courses of ore since the last meeting, they have, in reality, increased in value. An accident, which was considered by miners to be but of little importance, as it only involved an expense of about 450., was made an excuss to depreciate the market value of this property to the extent of 20,0007. The usual efforts have been made to alarm shareholders by exaggerated accounts, and induce them to sell, and thereby supply the "bears" with the shares requisite to enable them to land their profits. In this attempt, however, I have good reason to believe they have signally failed, and am only surprised that so shrewd a class should have commenced operations against a mine with such brilliant prospects.

2. Adam's-court, Old Broad-street, September 11, 1863.

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES, COMMISSION, and GENERAL AGENTS for the FURCHASE or SALE of MINE SHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

Commission on sharetransactions 1½ per cenf. on £100 and above, and 2½ per cent.

MR. EDWARD COOKE, SHAREBROKER, 575, OLD BROAD STREET, LONDON, E.C. Advice given on application on the merits of the various mines currently dealt in.

M. R. GEORGE BATTERS strongly recommends his friends to buy Tincroft, West Chiverton, Chiverton, Herodsfoot, South Caradon, and Devoc Great Consols for investment. These shares will pay good interest for money at present quotations.—5, Cowper's-court, Birchin-lane, E.C.

MR. E. BEAZLEY, MINING AND GENERAL BROKER, I, BANK CHAMBERS, LOTHBURY, LONDON, E.C. S HARES WANTED IN THE FOLLOWING MINES, or

Creegbraws.
Grenville, £6.
West Caradon, £2
East Russell, £4.
East Lovell, £4.

HARES WANTED IN THE FOLL
state number and lowest price:
Clifford Amaigam. £34.
Kitty (Lelant), £11.
Gonamena, £3.
Grambler and 8t. Aubyn,
£12½.
Rosewarne United, £1%.
East Basset, £69.
Camborne Vean, £1½.
FOR SALE:

25 Rosewarne Ud., £1¾.
25 Rosewarne Ud., £1¾.
25 Rosewarne Ud., £1¾.

South Frances. Wheal Seton, £215. South Crofty, £25.

POR SALE:— 25 Rosewarne Utd., £134. 10 Grenville, £634. 1 Grenville, £ ROSEWARNE UNITED.—Mr. RYE hopes the shareholder herein will support the present management, and thereby study the interest one and All."—77, Old Broad-street.

JOHN RISLEY, 32, LOMBARD STREET, LONDON, E.C., SHARES in MINES BOUGHT and SOLD on commission, at 1% per cent., for immediate cash. Bankers: London and Westminster, Lothbury.

GEORGE RICE, SHAREBROKER, 1, FINCH LANE, CORNHILL, LONDON (20 years' experience).

Bankers: Bank of London.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 31, THROGMORTON STREET, LONDON, E.C. 2010

Commission, 1½ per cent. on all transactions.

SHARES FOR SALE IN THE FOLLOWING MINES:—
East Basset, £80½.
Clifford Amal. £84.
20 Kelly Bray, 16s.
Wheal Uny, £8½.
Pendeen, £8½.
Pendeen, £8½.
Wheal Uny, £8½.
Wheal Builer, £20.
Wheal Builer, £20.
Wheal Builer, £42.
Wheal Builer, £42.
Wheal Builer, £42.
Wheal Builer, £43.
Clidagow Caradon, £3%.
Crant, £16½.
Crant, £16½.
Crant, £16½.
Crant, £16½.
Crant, £16½.
Crant, £16½.
Crant S. Toigus, £4½.
Yudanamutana, £3½.
Yudanamutana, £3½.
East Grenville, £3%.
SHARES WANTED for cash:—

SWALE OWING MINES:—
SNangles.
North Crofty, £3%.
Kitty (St. Agnes), £8%.
West Caradon, £22.
Great Fortune, £30.
Wheal Unity, 14s.
Frovidence, £45½.
Wheal Crafton, £22.
Crant Fortune, £30.
Wheal Margare, £30.
SWALE OWING MINES:—
SNangles.

SHARES WANTED for cash:

5 Wh. Trelawny, £161/4.

Shares bought and sold at 1½ per cent, commission.
WILLIAM BARTLETT, Stock and Sharedealer.
12, St. Michael's-alley, Cornhill, London, E.C.

MR. D. STICKLAND, M.E., having had upwards of 40 years' mining experience in Cornwall, several years of which he has had the entire management of almost herein, enables him to GIVE GOOD ADVICE thereon.
MINES INSPECTED and faithfully REPORTED ON. DEALER in MINING, RAILWAY, and OTHER SHARES.
His monthly "Circular" for September contains a selected list of Cornish and other mines. Forwarded on receipt of six postage stamps.

5, Finsbury-street, Finsbury-square, London.

MESSRS. R. HORLEY AND CO., SWORN STOCK, SHARE, and MINING BROKERS, 45, CORNHILL, E.C. (late of 2, Royal Exchange-buildings), TRANSACT EVERY DESCRIPTION OF MINING BUSINESS, on commission only, and are in a position to obtain reliable information respecting all dividend and progressive mines.

MR. T. P. THOMAS, MINING AGENT AND AUCTIONEER, 2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.

THREE HUNDRED AND NINETY-EIGHT SHARES IN TREWEATHA LEAD MINE (forfeited for non-payment of calls) FOR SALE, BY PUBLIC AUCTION. MINE (torretted for non-payment of calls) FOR SALE, BY PUBLIC AUCTION.

M. R. T. P. THOMAS has received instructions to SELL the
above MINE SHARES, BY AUCTION, at Garraway's, on Thursday, the
24th Inst., at One o'clock. He will also have for eale aundry VALUABLE DIVIDEND
and OTHER MINING SHARES, and any parties wishing to offer shares on that day
must forward instructions on or before the 17th inst., that they may be advertised in
the MINING JOURNAL, and inserted in the catalogue.
2, Crown-court, Threadneedle-street, London, E.C.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER,
3, PINNER'S COURT, OLD BROAD STREET, LONDON; and
16, HACKINS HEY, LIVERPOOL.

Now ready, Mr. THOMAS's "Mining Pamphiet," containing practical information respecting some of the mines now being dealt in on the market, with his observations and advice relative to the same. Post free for six stamps.

Mr. THOMAS is a SELLER of FOUR SHARES in the MINERA LEAD MINE, for the sum of £1020 the whole, nott cash, free of all commission.

MR. FRANCIS G. LANE, No. 2, ROYAL EXCHANGE, LOXDON, E.C.

The following SHARES FOR SALE, at sett prices:

5 Bryn Gwiog, £33.

20 East Wh. Lovell, £4½.

26 East Frovidence, £3½.

20 Havan (fully paid), £1.

20 North Crofty, £3 189 34

50 North Crofty, £3 189 34

50 Rath Jan. 30s.

20 St. Just United, £3.

50 North Downs, £1 189 64

4 Cook's Kitchen, £34.

5 Basset & Grylis, £33½.

6 Basset & Grylis, £33½.

6 Basset & Grylis, £33½.

6 Basset & Grylis, £33½.

MR. FREDERICK WM. MANSELL, STOCK AND MINING BHAREBROKER, 75, OLD BROAD STREET, LONDON.

Mr. MANSELL will, on application, forward a list of mines for immediate purchase, likely to considerably advance in price during the next month.

Telegraphic orders to the above address will meet with prompt attention.

Terms of commission, 1½ per cent.

Bankers: London and Joint-Stock Bank.

JAMES HUME, SHAREBROKER, 74, OLD BROAD STREET,

JAMES HUME'S "Circular" for August now ready, price 6d.; annual subscripton 5s.

Commission, 14 per cent.

Bankers: London and Joint-stock Bank.

MR. THOS. THOMPSON, MINING OFFICES, 12, OLD JEWRY CHAMBERS, LONDON, E.C. Mr. THOMPSON has the means of obtaining the very first information, and is fully capable of giving the best advice, either for investment or speculation.

MR. E. GOMPERS, MINING OFFICES, 3, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C. BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES. Terms, 1½ percent.—Bankers: London and Westminster Bank.

NORTH LAXEY.—WANTED, SOME SHARES, at a nominal price.—Address, with number and price, "W. L.," MINING JOURNAL office, 26,

T. IVES WHEAL ALLEN, NEAR ST. IVES, CORNWALL.—TO BE SOLD, FIFTEEN SHARES in ST. IVES WHEAL ALLEN. Frice for cash, 25s. per share.—Apply to Mr. Thomas Carter, Sharedealer, Camborne, Cornwall.

NANT MINERA, ADJOINING THE MINERA MINE.—
A FEW SHARES FOR SALE.—Apply to the Secretary, Nant New Mills,
Bersham, Wrexham.

BROKERS, AND OTHERS.—The ADVERTISER IS DESIROUS OF DIS-POSING OF, on advantageous terms, a VALUABLE SLATE QUARRY in CAR-NARYONSHIRE. Or would be happy to treat with a respectable party to form a limited liability company to work the same.—Address, William Morris, Esq., Mining Journal office, 28, Fiest-street, London, E.C.

S LATE QUARRY.—The LESSEES of very VALUABLE SLATE ROCK PROPERTY in MERIONETHSHIRE, within three miles of a shipping port, are PREPARED to DISPOSE of the WHOLE or PART of THEIR INTEREST in the same. There are TWO BEDS of SLATE ROCK, one of a beautiful GREEN and the other a BLUE colour. There is every facility for opening extensive quarries. Terms very easy.—Address, Mr. Morris Roberts, Glanmorfa State Works, Carrierson.

TO CAPITALISTS—COLLIERY PARTNERSHIP.—
WANTED, for the FURTHER DEVELOPMENT of a COLLIERY in NORTH
WALES, with rail and water access, a PARTNER or PARTNERS, with £10,000, to
take one-half share. No objection to limited liability.—Address, "A. B.," Thomas
Crosfield, Esq., 1, Temple-court, Liverpool.

TO CAPITALISTS AND OTHERS.—FOR SALE, the LEASE of a VALUABLE SLATE QUARRY in CARNARYONSHIRE, in full working order, capable of producing an immediate return of slates. One mile from a tramroad, by which cost of carriage can be reduced to 3s. 6d. per ton.—Apply to Messrs. Taylor and Mason, 16, Furnival's Inn, London.

QUARRY INSPECTION.—A PRACTICAL QUARRYMAN, who is well acquainted with all the quarries in North Wales, as well as several in Devonshire and Cornwall, OFFERS HIS SERVICES to INSPECT SLATE QUARRES, and to furnish truthful reports thereon. Highly respectable references given if required.—Address, "Quarryman," MINING JOURISAL office, 26, Ficet-street, London.

TO INVESTORS.—CONSULT MR. GRIFFITH, 27, LEADENHALL STREET, LONDON, E.C., who ADVISES as to the RESPECTABILITY, VALUE, and FROBABLE PROSPECT of SUCCESS OF ANY SCHEME, PUBLIC COMPANY, &c., whether already established or in course of for-

MONEY.—Great profits are made by judiciously speculating in mines, but the greatest caution is necessary. Consult the correspondent of the Mining Journal, who writes under the signature of "A Cautious Man."—Address, Mr. Halse, Mining Broker, 28, Threadneedle-street, London.

MONEY.—CONTRACTORS and OTHERS can be ACCOMMODATED with LOANS, DISCOUNTS, &c.—Apply to Messas.
WILKINSON and Co., monetary negociators and arbitrators, &c., 25, Birchin-lane, Corn-lill, London, E.C.

HOW TO SAVE MONEY.—Before buying a mine share, read demonstrate the real profits of mining, and to protect the unwary from the heavy losses awaiting all who engage in the pursuit without experience. The information it imparts has cost many a speculator hundreds of pounds. Per post 13 stamps.—21, Sun-street, London, E.C.

THOS. L. COTTINGHAM, MINING ENGINEER,
MINERAL AND LAND SURVEYOR, AND GENERAL AGENT,
LITTLE NESTON, CHESHIRE, AND MOLD, FLINTSHIRE.

JOHN GLEDHILL AND CO., MINE AGENTS AND SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

MR. BRENTON SYMONS, M.E., has RETURNED from the CORK MINING DISTRICTS. SPECIMENS of the ORES from the different mines may be seen at his offices, 18, Hatton-garden, E.C.—August 6, 1863.

MR. BRENTON SYMONS, M.E., WILL BE IN CORNWALL UNTIL the 18th of SEPTEMBER. Letters previous to that date should be addressed to his offices, at Truro.—18, Hatton-garden, August 22, 1863.

A MINING PAMPHLET, containing information as to Grenville East Grenville, East Candon, East Basset, Bryn Gwiog, North Roskaar, Whea Crebor, Ludoott, Seton, and other mines. Price 6d.—T. E. W. THOMAS, 2, Pinners-court, Old Brand-street, London.

Original Correspondence.

CORNISH MINES, AND SUPPLIES.

Sin,—Much interest has been excited in the county by the publication in the Journal of the various letters respecting the supply of materials to mines. There is no denying that the system attacked has been a great grievance—long known and seriously felt by many merchants as well as the most experienced adventurers. I much question if any party is particularly benefitted by the present arrangement: the merchants, to maintain their position, have to hold a large, and at times an expensive, interest, while the independent shareholders, dissatisfied with what they feel to be an unfair disposition of their capital, frequently so far at times withhold complying to the calls as to necessitate the premature closing of promising setts. Now, what coccurs to myself and friends, not only to remedy the evil complained of, but to establish a better system of management, one that must prove satisfactory to adventurers, and ensure the best description of materials, is to publicly advertise for tenders for a supply of all that may be required for the use of the mine. Let all the merchants have a fair chance of our business; we shall be better supplied, and the money expended in merchants' calls will not have to be made up in the charges. I recollect when the tenders for West Caradon and other mines used regularly to appear in the Mining Journal. I do not think the captains, or others concerned, will say they are better or more cheaply served now than then.

J. Sims. Sin,-Much interest has been excited in the county by the publication in

CORNISH MINES, AND SUPPLIES.

SIE,—I am gratified to find that my letter of enquiry has had the desired effect, so far as one article of commerce is concerned. The mines are certainly under very great obligations to "An Old Adventurer" and to an "Outsider," for the valuable information contained in their letters, and which I hope will induce the adventurers in every mine to adopt some simple plan to prevent such anomalies as are described by your correspondent, "Outsider." The mode adopted by Messrs. John Taylor and Sons, of Queen-street-place, Upper Thames-street, in their mines—that is, that all materials purchased for the use of the mine shall be made by tender, would do this—there is no cavilling, no heartburns, as to overoharges by of Queen-street-place, Upper Thames-street, in their mines—that is, that all materials purchased for the use of the mine shall be made by tender, would do this—there is no cavilling, no heartburns, as to overcharges by certain great houses, and sundry pairty deductions from the little bills of men of smaller note! No adventurer has any reason to doubt or grumble at Messrs. Taylor's mine meetings. He has only to compare the charges with the list of tenders, and the commercial part of the business is settled. This simple and easy method of management is sure to give satisfaction to at least the "out adventurers." The honest and straightforward course pursued for so many years by the head of that house inspired universal confidence in his integrity, and to have given him a "testimonial" while he lived would have been but to "render honour to whom honour was due." That venerable man, however, has passed away to his peaceful rest, and as yet I do not hear a whisper of a public tribute to the memory of this honourable and noble-minded gentleman. Probably, if he possessed his "million," the mining community would long ago have been called upon to emblazon his tablet with "gilded grandeur." To do something now that he is departed, would be a proof that the miners of Cornwall—nay, of all England—appreciate the public conduct and real worth of a man "who lived before his time," but of whom it may be justly said, "his works do follow him." Sir, I believe the miners' hearts are full of the best thoughts concerning him. They only want some leading spirit to commence the good work, and we should have an outburst of that generous soul which fills the breast of every Cornish miner.

An Adventurer. good work, and we should miner.

CORNISH MINES, AND SUPPLIES.

CORNISH MINES, AND SUPPLIES.

Sin,—Being desirous of casting in my mite towards this important subject of supplies to mines, which gives me great satisfaction in reading, simply for this reason—I have proved the gross custom practised in the west and north sides of the county of Cornwall, in not only mine adventures, but by consumers of timber generally, and have not failed to remonstrate with mine committees on this point; but, being wise in their own conceit, they say a foot is a foot. Then, what about the captains? I have beard that if one individual in the West has the management of five or six mines he can live without a salary at all. Can anyone solve this enigma? As to the line drawn by one of your correspondents, I am doubtful if the tim-ber/dealers at Charlestown confine themselves to the duty-paid measure in their sales. For my own part, I believe when west of Par a consumer will find himself really below Par; and here it is where the two measures come in contact. To strengthen my remarks, I now give you an example of timber delivered in a mine as dety-paid measure, and, on investigation, thus—charged by the merchant 168 feet; when compared at the Custom-house it was 117 ft. only; excess, 51 ft.; and where you find most competition you find the shortest measure—what a consolation!

A correspondent says, the late Mr. Treffry remedied this evil by contracting only for Customs' measure. This might also lead us to ask, as they continue to tender for timber, why they do not tender for coals and castings as they used to do? The mines are decidedly not enhanced in value the last few years, but depreciated some 500 or 800 per cent. Then, again, mine captains are placed on committees to act as tools for ironfounders and merchants, and at times four-fifths of the shares in their names belong to other parties, whose canse they advocate. New engines, pumps, crushers, cages, rods, &cc., all new, when neighbouring mines are buying just as good at 300 or 400 per cent. less. I say, let me see a committee that will al

THE ANTICIPATED EXHAUSTION OF COAL.

Sin,—After reading the Address of Sir Wm. Armstrong to the British Association for the Advancement of Science, in the Supplement to last week's Journal, it occurred to me that the following Suggestions, which I submitted in Feb., 1860, to the Lords of Her Majesty's Treasury, might very properly be printed. You will oblige me, therefore, by publishing them in the Journal.

very properly be printed. You will oblige me, therefore, by publishing them in the Journal.

1. That a stringent law be enacted to prevent any further exportation of coal from this country, except to British colonies and dependences, and for the use of British steam vessels. And that every reasonable encouragement should be given by the Government to such persons whereby their inventions shall succeed in economising the consumption of coal in this country, the present waste of which, in my humble opinion, amounts to full three-fourths of the whole quantity consumed. And that an offer of a large reward should be published (say, 100,000L) for the discovery of a cheap substitute for coal, without any admixture thereof, applicable to all purposes to which coal is at present employed. My reason for tendering the above advice is that more than 40 years ago I had the superintendence of my late father's extensive collieries in Staffordshire and Warwickshire, and well recollect it was generally considered that the full moiety of all the main Ten-yard coal of the former county, and of the principal coal strata in the latter county, as well as in Shropshire, was (even at that early period) morked out. And, further, from observing a statement in the Mining Journal of Oct. 10, 1857, that large quantities of coke were at that time being conveyed from the coal mines in Durham for the use of the blast-furnaces in Staffordshire, showing, beyond all question, the scarcity of coal suitable for the iron manufacture in these districts, which scarcity, I have no doubt, would be found to apply to many other localities; and also from a strong impression, resulting from some considerable experience in coal mining, that the coal fields of this country are much nearer exhaustion, as regards coal of good quality, than is generally imagined, and to such extent that if the expenditure and exportation of coal are allowed to go on increasing in the same ratio for the next century as for the last few years, the people of this country will then

and when so exhausted of coal, what, het me ask, will be the condition of this country as a manufacturing nation?

2. That all dealers in food, beverages, and medical preparations should be compelled to take outlicenses (say at 5l. or 10l. per annum), such licenses being summarily forfeited and annulled upon any dealer being convicted of fraudulent adulteration, or of using false weights or measures. To this tax, which would be productive of a very large and easily collected revenue, I feel satisfied the general public would not object, as more than an

equivalent advantage would be gained in the purity of all articles of con-

sumption.
3. The sinking of a pair of shafts or pits, at the Government expense, into what are now considered the primitive rocks, to as great a depth as it is possible to penetrate, for purposes of discovery.

4. The establishment of a permanent commission for investigating and reporting upon the claims of individuals for public services rendered or losses sustained in the public service, with a view to speedy remuneration or compensation.

W. H. James, C.E.

MESSES. RIDLEY AND JONES'S COLLIERY VENTILATOR.

Sir.—Whether my statements with regard to Messrs. Ridley and Jones's entilator are absurd or otherwise, perhaps your disinterested readers are etter able to judge than Mr. Ridley himself, more especially when Mr. Ridley himself, more objectable when Mr. Ridley himself, more objectable. He cannot ee the analogy between a machine to ventilate mines and a centrifugal see the analogy between a machine to ventuate mines and a contriugate pump, although his ventilator is itself nothing more nor less than a centri-ingal pump. This machine has usually been applied to pumping water. Messrs. Ridley and Jones use it to pump air, and I maintain that there is the same objection to it in both instances. I stated in my last that "while the International Exhibition was now! I have seen Messrs. Gwynne's large

Mesers. Ridley and Jones use it to pump air, and I maintain that there is the same objection to it in both instances. I stated in my last that "while the International Exhibition was open I have seen Mesers. Gwynne's large pump made to evolve at 50 revolutions per minute, without a pint of water being raised, and at 100 to 150 revolutions per minute there was a fair volume of water thrown—but with all centrifugal-pumps there is an enormous waste of power. A centrifugal-pump will not pump at 'all driven at a moderate speed, and the quantity pumped does not increase in proportion to the speed; yet this is what Mesers. Ridley and Jones would have us accept as the most efficient ventilator extant;" and maintain that I was justified in doing so.

Alluding to the experiment on April 29, as given by Mr. Ridley, it will be seen that my view is fully borne out, the increase of speed not producing a corresponding increase of ventilation. With 60 revolutions per minute Mr. Ridley says he got 108,032 cubic feet of air per minute, which gives 1801 cubic feet of air for each revolution. He then increases the speed to 70 revolutions per minute, which, of course, should give him 1801×70=126,070, instead of which he gets only 113,240, or only 1618 cubic feet for each revolution, the loss, consequently, being more than 11 per cent. The fact is, 60 revolutions per minute is about the best speed at which a fan can be driven. Driven at 50 revolutions per minute, the resultwould be scarcely better than at 70, and it is not improbable that the ventilator would cease to pump altogether. This is the case not only with Messrs. Ridley and

better than at 70, and it is not improbable that the ventilator would cease to pump altogether. This is the case not only with Messrs. Ridley and Jones's, but with all fan ventilators, and is one great objection to them. It must, of course, be assumed, as they do not state to the contrary, that all the circumstances were the same in both experiments, yet we find that the velocity of the air per revolution was the same in the north air-course, whether the fan was going 60 or 70 revolutions per minute, whilst in the south air-course it was 20 per cent. greater with the fan at 60 than with it at 70 revolutions per minute. These are objections which are certainly not calculated to induce a favourable opinion towards the fan.

In comparing the Elsecar fan with Messrs. Ridley and Jones's, it should be considered that as there were five air-ways at Elsecar, and only two at Ardsley, a very different result would be shown in figures at the two pits, even with the same machine. The dimensions of the machines are about equal, but there is an amount of extra work to be done at Elsecar which, in my opinion, more than compensates for the differences shown by Mr. Ridley. Comparative experiments should be made under similar conditions. With respect to the Elsecar fan, Mr. Ridley states that 82,294 cubic feet were produced immediately the pit stopped working, and 74,718 cubic feet a few hours after it had stopped. Does the stoppage of the pit mean the stoppage of the fan? If so, perhaps Mr. Ridley will explain by what agency the ventilation was continued.

Mr. Ridley has not attempted to show that mechanical ventilation of any kind is more economic thap the fornace, although that would be not impediately the pit mean that mechanical ventilation of any kind is more economic thap the fornace, although that would be not impediately the pit stopped the ventilation of any kind is more economic thap the fornace, although that would be not impediately the pit at the population of any kind is more consonic thap the fornace, although th

agency the ventilation was continued.

Mr. Ridley has not attempted to show that mechanical ventilation of any kind is more economic than the furnace, although that would be most im-portant to the success of his invention. In all cases where mechanical ven-tilation is used, there is the wear and tear and cost of repairs of the ventitilation is used, there is the wear and tear and cost of repairs of the ventilator, steam-engines, boilers, &c., in addition to that incurred for the furnace. In my opinion there is nothing equal to the furnace; and if such an invention as that of Mr. Abraham Rogers, of Farnley Wood Bottom Colliery, or some modification of it, were introduced, I believe little further improvement would be necessary. As the invention has not been patented, there would be no royalty to pay, so that there could be no objection on that point. Mr. Rogers proposes to coke his slack in the ventilating furnaces, by which means he ventilates his pit for nothing, and converts that which is otherwise worthless into a marketable commodity; surely this is a system of ventilation more entitled to consideration than any mechanical contrivance that could be devised.

A Doggx.

STRANGE PRODUCTION FROM A BLAST-FURNACE.

SIE,—Referring to the paragraph on a strange production at the Coatbridge blast-furnaces, which appeared in last week's Journal, I may, perhaps, be allowed to say that I have seen the same flakey matter blown out of the back tuyere of a blast-furnace near this place; it resembles fine hair, but is quite brittle. It is neither more or less than slag, though it is somewhat curious that it should be thrown off in the form and manner described. It is no includent of rear occurrence. It is an incident of rare occurrence. WM. BROWN Northampton, Sept. 7.

LOOK TO YOUR ARTICLES OF ASSOCIATION.

LOOK TO YOUR ARTICLES OF ASSOCIATION.

SIR,—"Lux Obscura" has studied the law of public companies far too deeply to be led astray by Mr. Brook's interpretation of the Companies Act, 1862, and flatters himself that he can discuss a question without resorting to personalities of any kind. As to uncharitable insimutations against promoters and directors, I fear that I am justified in stating that they are too often open to them, though I admit that the adoption of special articles is very frequently caused by the desire of the solicitors to pat fees into their pockets, regardless, I am sorry to say, of the best interests of the company, or of the individual shareholders. Mr. Brook throws upon me the responsibility of proveing my assertion, that "the promoters of public companies have full power to bind the shareholders to articles which have never been submitted to them, and which may contain provisions directly adverse to the shareholders' best interests, and that Mr. Brook has not shown that promoters do not possess that power. My task will here be anything but difficult.

Firstly, as we are discussing the power of promoters before the company has any existance, and as sections 50 and 51, quoted by Mr. Brook, apply only to companies that are already formed, they do not bear upon the question; secondly, section 16, also quoted by Mr. Brook, is fatal to his argument; and, thirdly, section 16 would likewise have been so, had he quoted it without mutitation. I will now prove that Mr. Brook has no authority to write—"The law, therefore, stands as follows:—Articles of Association may be used, but they must be signed and duly attested by each subscriber, and be in the nature of a specialty debt. Ordinarily—Table A is intended for the regulations of companies; if any departure is acought, as I stated, it must be by special resolution, passed at two general meetings of the company duly convened, and not otherwise." Mr. Brook and of the promoters are companied to decire the promoters are company of the promoters of the pr

of law are assumed to have a full knowledge of them, and are made responsible for in-fringing them, although they probably know nothing whatever of their contents. That the promoters are competent to adopt any special articles thay choose is proved by the 15th section, quoted by Mr. Brook—"In the case of a company limited by shares, if the Memorandum of Association is not accompanied by Articles of Association, or in so far as the articles do not exclude or modify the regulations contained in the Table marked A in the first schedule hereto, the last-mentioned regulations shall, so far as the same are applicable, be deemed to be the regulations of the company, in the same manner as if they had been inserted in the Articles of Association, and the articles had been duly resistant."

if they had been inserted in the Articles of Association, and the articles had been duly registered.

From Mr. Brook's allusion to section 16 he, no doubt, wishes it to be inferred that no shareholder can be bound by articles which he has not signed. This is not the case. The Act simply requires that the Memorandum of Association shall be signed by seven persons, each of whome shall undertake the responsibility attaching to one share. The whole of these reven persons may be promoters. When special articles are adopted, all that the Act requires is that they shall be signed by the same persons who signed the Memorandum of Association. These special articles may be fair or unfair towards the independent sharsholders, but with reference to them a part of section 16, not quoted by Mr. Brock, says that "when registered they shall bind the company and the members thereof to the same extent as if each member had subscribed his name and affixed his seal thereto, and there were in such articles contained a covenant on the part of himself, his heirs, executors, and administrators, to conform to all the regulations contained in such articles."

Capitalists must surely see that the responsibility thus thrown upon them is enor-

such articles."

Capitalists must surely see that the responsibility thus thrown upon them is enormous, yet they accept the whole of this responsibility in applying for shares, and anthorising the placing of their names on the register of shareholders. This is the great, the almost sole, defect in the Act, yet it gives promoters a power, and places capitalists at adiadvantage, almost too great to be calculated. Capitalists have but one remedy, and that has been frequently pointed out in the columns of the Journal, both editorially and by correspondents. It is this—Never apply for a share in a limited company, unless it is stated in the prospectus that Table A is adopted in its integrity, or the depar-

tures from it are distinctly stated. Special articles have almost invariably a special object, and that not in the interest of the bons fide and independent shareholders. It is true that after the registration of the company the objectionable articles can be modified by a special resolution passed, by three-fourths of the members present at two special meetings, but the trouble is great, and the advantage of the officers of the company (who have means of private communication with every individual member, from their power over the share register) is so great as compared with that of the individual shareholders, that the latter have very little chance of success. There is an old saying, that "one story is good until the other is toid," which well applies here. The officers of the company can make exparie statements to the individual shareholders, whilst their opponents have no means of answering theen. The independent shareholders can only communicate with their co-partners through the columns of the Journal, and the officers can, and frequently do, misconstrue the published statements, and elsed many to suppose that they are answered (the individuals having no means, until too late, of proving the counter-statements false), and thus obtain proxies, and override opposition, Capitalists must take care that the articles first registered are fair towards them (Table A is as equitable as could possibly be desired), for they may rest assured any alteration afterwards will be extremely difficult, unless such alteration is to the interest of those in power.—Colcharton House, Bedyord.

COPPER MINES IN SANTO DOMINGO.

Sin,—At the inauguration of the Platano Mining Company, accidental circumstances prevented the attendance of Professor Ansted and Mr. Josiah H. Hitchins; and, as the letters which were then read from those gentlemen have not yet been published, I venture to request the favour of your now giving them currency. If I may judge from the progress made in this undertaking, notwithstanding the usual dulness at this holiday period, I shall have no cause to regret the course I have adopted in establishing it.

J. Lee Stevens.

36, Cannon-street, E.C., Sept. 10.

Cambridge, Aug. 16.—In resolv to your letter of the 12th inst., I beg to say that, in

Ou, Lannon-Street, E. C., Nejft. 10.

Cambridge, Aug. 16.—In reply to your letter of the 12th inst., I beg to say that, in my opinion, you will find the mining district of E! Hoyo, or E! Piatano, in the Island of Santo Domingo, reported on by me in 1855, well worthy of commercial enterprise, There is no doubt that the whole of the neighbourhood is mining ground, and that both gold and copper were obtained from it by the Spaniards before the disturbances by which Santo Domingo was revolutionised. I may add that, so far as Col. Hencken is concerned, the most perfect confidence may safely be placed in his statements from the spot. Not only has that gentleman been long resident in the island, but he is in all respects competent to give an opinion.

Excess. Aug. 25.—I grayt not being able to attend your mealing to more which is the statement of the contraction of the contraction

spot. Not only has that gentleman been long resident in the island, but he is in all respects competent to give an opinion.

Exceter, Aug. 25.—I regret not being able to attend your meeting to-morrow, which I feared when at your office having a sight of the samples of copper ore, the produce of your St. Domingo Mines, with which I was very much pleased, more particularly with the largest anotychest rocks, far exceeding anything that I expected to see. I could not help believing, considering what I was looking at was only the produce of the saper-structural portions of your lodes, that by opening them out, and effectually bringing them into operation desper, you will be sure to realise far greater, more regularly continuous, and more richly concentrated courses of copper ore than you have yet done. It is clearly interential from what Mesers. Ansted, De Castro, Pooley, Husband, and Honeken say in their reports, (and they are evidently practically conversant with the matters they write on) that some of your lodes are large and very powerful, carrying a great abundance of highly mineralised and altogether most desirably constituted gossan on the backs (surface outcrops), and at no great depth below rich copper ore, in its various forms of red, grey and purple exides, green and blue carbonates, and sulpides. In addition to which very approvable mineralogical properties and characteristics of the lodes, it is equally clear that the rock formations and geological conditions, necessary to the existence of rich and abundantly productive courses of ore, prevail in such a marked manner as not to be mistaken. I shall, therefore, feel much interest and great conditions in the matter and great conditions in the success.

J. H. HITCHINS.

Consulting Mining Engineer to the Devon Great Consols Mines.

P.S.—Surely the large rocks of rich ore in your office are safe guarantees that the lodes will be very abundantly productive at no great depth below.—J. H. M.

MINES, MINING, AND SMELTING IN SIBERIA-No. I.

P.S.—Surely the large rocks of rich or an jour office are asis quarantees that the locks will be very abundantly productive at no great depth below.—J. H. H.

MINES, MINING, AND SMELTING IN SIBERIA—No. I.

Sin,—The gold mines, properly so called, are in the Ural Mountains, but are no longer the chief source of supply, which is to be found in the clay and detritus, extending over the vast eastern regions, along the low ridges trending from north to south in the Governments of Tomak and Veniceik, ridges which may be considered offsets from the great east and west chain of the Altai, which separates Siberia from China. The annal yield of gold of the eastern Siberian trates and of the Ural Mountains has witnessed in the last 30 years an extraordinary augmentation, and may be put down at 6,000,0001. A containing the products become more widely known, it is reasonable to anticipate that transporting the products become more widely known, it is reasonable to anticipate that remain a proper of the products and the products and the remain and the re

scarcely ever known. The antiferous quarts, when brought to the surface, undergoes the unail separation by collection; the more valuable is rudely broken up, and then conveyed by water, if necessary, to some central stamping and amalgamating mills. The machinery for cleansing, separating, and retorting the quartz is on a mammoth scale. Auriferous silver, combined with gold in very considerable proportions, has been worked. It is found in granular heavy spar, accompanied by vitreous silver ore, vitreous copper, and pyrites. Auriferous sulphuret of silver frequently presents itself in a vein of jasper.

C.

EAST CARADON MINE.

SIR,—Capt. Seccombe, in his letter in last week's Journal, says "I took the earliest possible opportunity of informing the shareholders of the discovery, as soon as I could ascertain the value of the lode cut." This is no answer to the allegation that the lode was cut on the Friday, that large purchases of shares were made on Saturday by one broker, and that it was not communicated to the London Exchange till Monday. For whom were those purchases made?—Rumour says for the management. By whom were those shares soid?—Quoting from Captain Seccombe's letter, "by men who have been my co-pariners," who sold in ignorance of any discovery having been made.

The object of the meeting of the Mining Exchange referred to was to try the validity of the power assumed by the managers of East Caradon to close the mine against the shareholders for a month at a time. Capt. Seccombe does not hist in his indignation letter to this important matter, but attempts to impage the respectability of the goilleman deputed to apply for a peremptory order to inspect, by stating that he holds only one share; this is beeded the subject. I am informed that the applicant was selected by the members of the Mining Exchange, as being one of their committee, to try squestion which they look upon as one of vital importance to the mining interest, and the principle of the cost-book management of mines.

Capt. Chas. Thomas was chosen, as holding a position far above all suspicion, to in-SIR,-Capt. Seccombe, in his letter in last week's Journal, says

ect the mine, in the event of the Vice-Warden granting an order, and that the vexed testions at issue, whether or not the reserves are worth 30,0001, or 100,0001, may be set rest. I am told that the matter will be argued before the Vice-Warden in the course a few days, and beyond all doubt this serious question to the cost-book management mines will be vindicated—that shareholders have the power to manage their own toperty, and to inspect books, papers, and their own mines at all reasonable times, aptain Secoumbe will do well to cease his opposition to a principle sacred to mining in oranwall.—Listeard, Sept. 9.

TRUTH.

EAST CARADON MINE.

EAST CARADON MINE.

Sire,—In the spring of last year a correspondent of the Journal cantioned the public against the then high prices of East Caradon and East Cara Brea shares, for which he was severely taken to task by some of the brokers; but it seems that these gentlemen have at last (as soon as it answered their purpose) found out their mistake, and the opinion is now almost universal that East Caradon shares are selling at a price much below their real worth. To the opinion of mining brokers I attach the least possible importance, but I am, infortunately, almost as sceptical about the opinion of mining captains in relation to their own particular mines; not because I think, as a rule, that they wish to deceive, but on the principle that a man is generally too much biased in favour of his own property. With all deference to Captain Secombe, I am afraid that he forms no exception; for on referring to his report, and to what he said at the meeting in January last, the following statements were made (see Mining Journal, page 90):—"The mine never looked owell as at present, or so likely to pay the shareholders good and continuous dividends." And again, "During the past three months the shareh had been as low as 33½, but they were now 46 to 47, and tikely to go still higher." Against the opinions thus expressed by the captain of the mine, the quarterly dividend has failen off from 20s. to 12s. 6d., and the shares have greatly decilined.

Whilst I would not for one moment impagn the high respectability of Capt. Secombe, and it is well know the ore consensed of the state of the properties of the properties of the second must not be sufficiently and the shares have greatly decilined.

Whilst I would not for one moment impagn the high respectability of Capt. Secombe, and the shares have greatly decilined.

Whilst I would not for one moment impagn the high respectability of Capt. Secombe, and the shares have greatly decilined.

The shares to share the share had been brought about by the captain of the minut not be su

that has been occasioned by public companies has been brought about by the negrect or this precaution.

I presume that even Capt. Seccombe would not now value the reserves at more than \$0,000!. (I am stating the amount very liberally), so that the speculative future value of the mine is rated at the enormous sum of \$0,000!. and this, too, in the face of the lowest level not having turned out searly so well as the upper ones. What if the next level should show a still further failing off?—a contingency quite as probable as the reverse. If the present shareholders like to keep their shares, by all means let them do so, and I hope in twelve months they will not regret their resolve; but I again repeat, that if any of them offer their shares to the public, the public has an undoubted right to see that the statements put forth can be fully borne out by facts. I think most of your readers will regret the resolve not to allow Capt. Thomas to inspect the mine, as an independent inspection by him would, it should have thought, been satisfactory to all parties, excepting those who have misgivings that the mine in reality is not worth what it a represented to be.—Sept. 10.

G. K. B.

EAST WHEAL GRENVILLE.

IRON AS AN AMERICAN PRODUCTION.—The value of iron, and the decline in the production of English furnaces about the commencement of the 16th century, threatened to leave Great Britain entirely dependent on her colonies for supply. Every attention was, therefore, turned to the immense mountain forests of their American colonies for a supply of this all-important mineral, which resulted in the discovery of ore in Virginia. As early as 1610, according to the testimony of Sir Thos. Gates, "divers sorts of minerals, especially of iron ore lying upon the surface of the ground," were found in the James River country, in Virginia. In the year 1610, a London company sent to that section a large number of emigrants, among whom were some 160 skilled workmen in the manufacture of iron. Works were immediately established on Falling Creek, a branch of the James, and not far from the ancient settlement of James Town, for smelting the ore, a mine of the brown ore having been found there, from which good iron was readily made. But Indian jealousles were aroused against the pale faces, who were spolling their hunting grounds, and in May, of 187, the whole colony, except a boy and girl, were cut off. Ironworks were not again the pale faces who were spolling their hunting grounds, and in May, of 187, black and red lead, copper, &c., are named. The first attempt to manufacture was a lead of the prominent citizens of the colony of Massachusetts Bay, was made in 1637 or 1638, in the town of Lynn. An association was soon atterwards formed, called the "Company of Undertakers for the formoworks," comprising many of the prominent citizens of the colony, and some in England. This company, with Mr. John Winthrop, Jun., as its general superintendent, applied to and obtained from the general court many chartered privileges, some of which now-a-days would by styled monopolies. After granting "to them and their assigns forever," 3000 acres of land at Braintree, they gave them the exclusive privilege of making iron for 21 years, provided they ma

The increase of the Petroleum trade rapidly continues. According to the last accounts, the shipments from New York since the beginning of the present year have reached 13,500,000 gallons, valued at 1,000,0001, while those from Philadelphia have been about 4,000,000 gallons, valued at 200,0001, a larger proportion of the crude oil being sont thence. Boston siso has dispatched 1,500,000 gallons, and Baltimore 750,000 gallons—making a total of nearly 20,000,000 gallons in less than eight months. Lord Palmanated.

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Meetings of Mining Companies.

MINING COMPANY OF ITALY.

MINING COMPANY OF ITALY.

A meeting of gentlemen interested in the mineral resources of the Bellabio district, on Lake Como, in Northern Italy, was held at Greaham House, on Thursday.—Mr. MILES CHARLES SETON in the chair.

The CHAIRMAN requested Mr. J. Baxter Langley to act as secretary of the meeting, and called upon him to state the purpose for which it had been called.

Mr. LaNGLET explained that, in the first instance, attention was directed to certain valuable deposits of lead ore which occurred near Bellablo, on the Lake of Como, and they issuand that the mines in which those deposits occurred could be purchased upon favourable terms. Being desirous that every investigation should be made, their first step was to ascertain that the title of the vendor was beyond question. The result of the enquiries being perfectly satisfactory, it was proposed to form a limited liability company, composed partly of English gentlemen and partly of gentlemen of first-class position in the district of the proposed mines, to purchase and work the deposits of lead ore, which were represented as being sufficiently rich to make mining highly profitable. Before the publication, however, of any prospectus, it was considered prodent to obtain a forther reliable report by a practical English mining engineer, in addition to the reports, assays, specimens, &c., which had been previously obtained. Mr. George Darlington, of the Minera Mine, near Wrexham, was accordingly dispatched to the place, with instructions to make a full enquiry with regard to the whole matter connected with the Bellabio Mines, and to report thereon in detail. That gentleman had returned with accounts more than amply justifying the original statuments made as to the value of the property, and leading to the conclusion that there was nowhere a more bona file and profitable held for investment than in the district alluded to. The gentlemen originally interested in the mist instance, however, to lay all the facts before those whom they invited to co-operate with the

Included Nites, on Lake Come, in Risly, I forthwith proceeds to investigate and report upon the property which has been ind before you for prothess. I may here at once school ledge the kind and complete assistance which was candered me by the vendors of the control of the process of the process of the control of the process of the control of the con The increase of the Petroleum trade rapidly continues. According to the last accounts, the shipments from New York since the beginning of the present year have reached 13,500,000 gallons, valued at 1,000,000 gallons, valued at 1,000,000 gallons, and have been about 4,000,000 gallons, valued at 20,000,000 gallons, and been dead of the crade oil being sent thence. Boston also has dispatched 1,500,000 gallons, and Baltimore of the present year possible of the crade oil being sent thence. Boston also has dispatched 1,500,000 gallons, and Baltimore of the crade oil being sent thence. Boston also has dispatched 1,500,000 gallons, and Baltimore of the crade oil being sent thence. Boston also has dispatched 1,500,000 gallons, and have been about 4,000,000 gallons in set that eight months. Lord Palmerston last week visited the new slate quarry under Moclawyn Mawr, now being opened by the Welsh Siate Company. The washer was very unforward to the control of the Samina of the Cardina Bay, with its distant coast on one side, and St. Tudwell's Island and the coast of Lieyn on the other; Portmador, and the same of the state of the st

been hitherto obtained, I have every reason to believe that the Heilaido Mine may be regarded as a safe investment for capital, and is free from many of those speculative elements usually connected with mining; and that, with intelligent and honest management, the property cannot fail to yield an excellent dividend.—Jour Darkington. Mr. J. B. Langley.

The Charkwan said, that as the report was very elaborate, it would, probably, be more antisfactory to the meeting if Mr. Darlington would mention the more sailent points it sontained.—Mr. Darkington, in reply to questions from those present, stated that the nature of the deposit was not a vein, but a bed, from 4 to 9 feet in thickness, and nearly horizontal, passing through a mountain, or, he might say, a pair of mountains. There was a face of some 3000 feet, and throughout that distance numerous openings had been made, some by the ancient koman miners, and some by the present proprietors. It was simply a bed of ilmestone, in which nodules, branches, and strings were me with.

The Chariman said that, if he understood Mr. Darlington correctly, it was a horizontal iode instead of a vertical one, and that it also possessed the advantage of being very regular.—Mr. Darkington repeated that it was a bed of ilmestone, in which the veins and branches were thickly interspersed; the country was also limestone. The average obtained from the workings had been 35 cwts, per fm.; but in order not to oversettimate, he had taken it at one-half that quantity, and put it down at 18 cwts, per fm. The getting will cost from 2t. to 2t. 10s per fm. You might travel along the face of the mountain and trace the lode for fully 3000 feet. With regard to the extent in the other direction, the deposit was perfectly regular to the fault, then the lode thickens out, and becomes poorer, being ultimately lost. Lovels had in many places been driven in 70 ft., and the yield was constant. The ore exists throughout in a more or less massive state, and could be readily hand-picked; he made this remar

tely laid open to investigation and criticism."

Mr. Darkinoron observed that there was another instance of a similar deposit, which was at the established Monteposit Mines.

Thanks were then voted to the Chairman, and having been acknowledged, the meeting

NOVA SCOTIA LAND AND GOLD CRUSHING AND AMALGAMATING COMPANY.

A general meeting of shareholders was held at the London Tavern, Bishopsgate-street, yesterday,—Mr. G. LATHOM BROWNE in the chair.

The usual preliminaries having been disposed of, the report of the directors, of which the subjoined is an abstract, was submitted:—

tors, of which the subjoined is an abstract, was submitted:—
With regard to the progress since the commencement of active operations, the report states that at the earliest moment arrangements were entered into for the construction of three steam-engines, with stamps and amalgamators, which were completed and dispatched within the shortest possible time, and arrived in the colony partly in the month of April and partly early in May. Capt. Opic (the company's superintendent of practical operations), and a small, but effective, body of experienced Cornish miners, togesther with four working engineers, were engaged and dispatched to the bodoy early in the spring. One of the engines, with its attendant machinery, has been dispatched to Renfrew, and is now on the ground ready for erection as soon as the most elliptic spot has been determined on, and the engineers have finished the erection of the engines in the other districts. A valuable selection of ground has here been made, consisting of several claims of the largest class in one compact block; and, as numerous productive lodes are known to pass through them. Capt. Opic has organised a body of men to "prospect" the ground, so as to fix the best position for a regular shaft. The managing director, writing on the 6th inst., and speaking of the works of a neighbouring company, says—"From one are here, known as the 'Preoper' claim, 13 tons 8 owts. of quartz lately yielded 50 cs. of gold. The lode is over 10 in, thick, and runs through the company's set, although at 5 good distance from the claim referred to. Our men are now prospecting for this lode, and for others larger in size, which in some instances have produced from 1 to 1½ or. to the ton." From another company's claim, in the first week of the month, 8 tons of quartz gave 35 cs. or gold. The prospects, therebrey, in this district are highly favourable.

A survey of the Tangier property, with a view to its being laid oat, has been ordered. In the immediate neighbourhood of this estate gold was first discovere

company, having secured in addition to their freshold some very valuable mineral sites of (ast inferior, as a whole, to any in the province), have begun and nearly completed the erection of an engine, with stamps, &c., and commenced mining operations with vigour. It was that have been commenced, known as Annand's and Wier's, sunk, according to hast advices, to a depth of 28 ft., from which about 50 tons of quarts will have been extracted by the time the crusher is ready to go to work.

At 8therbooke, successful mining operations have been carried on for a long time. The company's crusher, which formed part of the original purchase, has been put into complete working condition, and some important improvements have been made in it, so that on a trial of its merits it was found to yield a very small amount of waste, and to be more effective that any of its competitors. The managing director, speaking of this district, says: — We have been fortunate enough to secure several new claims on what is known as the Cumminger lead, 600 ft, on the run of the vein, at nominal prices, which are likely, besides giving employment to our miners and crusher, to prove highly remunerative. The 800 ft, cost about \$50 before we prospected the ground, for which, after the lead was found and yielded 1½ oz. of gold per ton of surface stuff, the superincedus its very thin, not over ½ in., but exceedingly rich in visible gold: 300 ibs. of quartz taken from this yeln at a cost of \$45 produced 5 czs. of gold at the crusher, worth \$100. Shafts are being rapidly sunk on both the Cumminger and Brown leads, and if the prospects continue favourable, we will soon be able to profutably employ a large number of miners on these claims. I have also secured five additional areas, class No. 1, on the celebrated Bine lead, at \$10 per acre. Several beautiful specimens were lately taken from the Leslie claim on this lead, one of which was yesterday sold for \$130." Agalo, Capt. Ople says: —" Blue Lead: The shaft is sunk on this lead to a depth of 66 ft,, a

The CHAINMAN said that, according to the Articles of Association, they were comsiled to hold a meeting within twelve months from the date of the resistration of
se company. As it happened, however, that the company was registed on Sept, 11,
362, and was not brought before the public until a month or two after, and the whole
the capital was not subscribed until December, so that they could not get to work
nil the end of the year; indeed, it could scarcely be considered to have commenced
sen, for the machinery did not reach the colony until about May, from which time
se work of the company at these mine only dates. They should also make farther
lowance for the time necessary for the erection of machinery. In consequence of these
recumstances they had nothing further to state than was contained in the report subsitted. By adjourning the meeting, as it was proposed to do, they would have six
nonths' mining to report upon; and as Mr. Phillips had promised to leave on the 19th
the present month to visit the mines, he believed they would then be able to report
soly to them and announce some large remittance, and not only "80 ozs. on the way,
not expected to arrive in a few days."

It was then resolved that the meeting be adjourned until Dec. 16, and thanks having
sen voted to the Chairman, the proceedings terminated.

GREAT NORTH DOWNS MINING COMPANY.

A general meeting of adventurers was held at the company's offices, Austinfriars, on Thursday (Mr. J. E. Mathew in the chair), when the accounts showed a debit balance of 24881. 12s. 8d. A call of 10s. per share was made. The following report was read:—

Austinifiars, on Thursday (Mr. J. E. MATHEW in the chair), when the accounts showed a debit balance of 24881, 12s. 8d. A call of 10s. per share was made. The following report was read:—

Sept. 9.—To-morrow being the day appointed for the general four-monthly meeting, I beg to hand you the following report of the progress made in the past four months, with the present prospects of the mine:—Vivian's engine-shaft is sunk to the 57, on the course of the lode (Vivian's), and have extended the said level about 3 fathoms cast and west; the lode in these drivings averaged from 3 to 4 feet wide, composed chiefly of quartz, capsis, mundle, and copper ore, yielding saving work, of a kindly appearance. We shall at once cut a pist at this level, having the shaft cased down and footway fixed, and as soon as the pist is completed we shall fix a standing drawing-lift, and commence sinking the shaft to a deeper level without delay, as we consider the sinking in this part of the mine to be of the greatest importance, on as to get nearer the junction of the south lode, where there is good reason to expect the lode will become more productive, it being now very porous, and of a congenial character for producing copper ore. We also propose patting out a cross-cut south on the cross-course, to intersect the Pendarves and other lodes at this level, which is from 20 to 25 fms. to drive, to ascertain their value, having been very productive throughout the mine at a shallower depth. The lode in the winze sinking below the 47, cast of Jenkin's shaft, is 2 ft. wide, worth 57, per fm. Jenkin's shaft, is 2 ft. wide, worth 57, per fm. Jenkin's shaft, as 2 ft. wide; in the west end it is worth 4f, per fm., and east 3f, per fm., and likely to improve. The lode in No. 2 winze, sinking below this level, west of Vivan's engine-shaft is 24 ft. wide, worth 3f, per fm. In the bottom of the 60, west of River shaft about 25 fms. we have sunk a winze 3½ fms. below said level, where we met with water, and have been obliged to suspend it. We have supply

GREAT BRIGAN MINING COMPANY.

A general meeting of adventurers was held at the offices of the company, ustinfriars, on Thursday,—Mr. J. E. MATHEW in the chair.

After the usual preliminaries the accounts were submitted; they showed debit balance of 29837, 15s. 8d. A call of 10s. per share was made.

The following report was read:-

After the shane of 29831. 15s. 8d. A call of 10s. per share was made.

The following report was road:

The following report was road:

Sept. 9.—Harry's engine-shalt is now sunk to the 72, and have extended a cross-cut both north and south shout 3 fathoms. In the south end we have intersected a branch both north and south shout 3 fathoms. In the south end we have intersected a branch both north and south shout 3 fathoms. In the south end we have intersected a branch bar and the following reports were also intersected the branches are letting out a quantity of water, and have channed the 61 west to the passage of the short was also intersected. We have also intersected two branches are letting out a quantity of water, and have channed the 61 west to the passage of the short was about 1 fms. more to drive here to intersect the tode, and from the standed east of the shore which we expect will take place in about three weeks are reported at lightly improved rates.—Lard Channos have not distinct the following reports and the short was also intersected, which we expect will take place in about three weeks are reported at lightly improved rates.—Lard Channos have not distinct the following reports and the short was also intersected. We have also and west, to be a standed and of the above that about 45 fms., in the last 15 fms. of this divide the standed of the above that about 45 fms., in the last 15 fms. of this divide the standed of the above that about 45 fms. in the last 15 fms. of this divide the present cannot follow the standed to the above that about 45 fms. in the last 15 fms. of the standed the standed to the above that about 45 fms. In the last 15 fms. of the last 15 fms. of the standed to the above that 15 fms. of the standed to the standed t

of October. If it is possible to be executed sooner it shall be done. You may rely this work will be done with the utmost dispatch to prove this part of the mine, as we consider it one of the best speculations in the whole run of these mines, for reasons which have been stated many times before, and with which you are already acquainted, therefore require no further repetition.—T. TRELEASE, J. EDWARDS.

WEST CARADON MINING COMPANY.

A general meeting of shareholders was held at the company's offices, road-street-buildings, on Wednesday. dings, on Wednesday,
Mr. RICHARD HALLETT in the chair,

Mr. Dunsford read the notices convening the meeting, and the minutes of the last were read and confirmed.

A statement of accounts was submitted, from which the following is

Balance (loss).....£704 14 4
The balance of assets over liabilities was 25201. 11s. 2d.

The Channan said the only observation that he need make upon the report was that it was generally of a much more favourable character than for some time past. As regards the accounts, the statement just submitted included four months' cost, showing a loss during that period of 7001, which was somewhat less than the amount incurred in tutwork conventions.

tutwork operations.

Mr. T. Nicholas did not think it was possible to spend money in a better way.

rom the indications presented, he believed that West Caradon would soon again beome a valuable mine.

The report was received and adopted, and the accounts passed and allowed.

The report was received and adopted, and the accounts passed and allowed.

The Charkana, in answer to a question from Dr. M'Crae, stated that at the present time three members constituted the committee of management, and the amount of remuneration they received was 1001, a-year.—Dr. M'Chae did not see that a committee of management was of any service.—Mr. Nicholas certainly should support a committee for his experience told him they were of the greatest usefulness in the conducting of any mine.—Mr. Youne auggested there should be a proper qualification, and that the committee should, as hitherto, be composed of five members.

The Charman said he would not submit to his hands being fettered in any way; rather than do so he would at once retire.

Mr. Which has a good thing, but it was far more desirable to have a gentleman qualified by abilities to occupy a position

ther than do so he would at once retire.

Mr. Wriger had no doubt that a money qualification was a good thing, but it was far more desirable to have a gentleman qualified by abilities to occupy a position upon the committee.—Mr. Hadow did not think it was competent for the present meeting to decide such a question.—Mr. Young faily concurred, and stated that he was quite willing that the matter should be considered at the next meeting. He wished it to be fully understood that he in no way dispuraged the usefulness of the committee, for no mine owed more to the committee than did West Caradon.—It was then decided that the question should be considered at the next meeting.—Mr. Wirrix proposed that Mr. W. Kemp Evans be elected a member of the committee, in the room of Mr. Harris, who had become disqualified.—The resolution was seconded by Mr. Young and put and carried.—A vote of thanks to the Chairman terminated the proceedings.

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING. The Mining Share Market is manifestly improving, although it does not appear that so much business has been done as anticipated from the tone of the market last week. Still there has been a fair amount of business done in the agaregate. From the enquiries which are still being made for most of the leading progressive and dividend mines, there is every probability of considerable transactions in prospective. Devon Grazar Consots and South Caradon have been in request, but found searce.—Serons continue quiet, at quoted prices.—Captrons and Mangluss have been freely dealt in, but prices have varied.—East Bassets are a little more in request, and done at quoted figures.—Whele the statement of the search dealt in at lower rates.—South Tolous are offered at less, but buyers scarce.—Tinchoft and South Crowth have been dealt in, and more freely enquired for.—West Tolous have deedned,—Whele tolous have deed ealt in, and more freely enquired for.—West Tolous have declined, and heavy, at lower rates.—East Grenville and Wheal Grenville have fluctuated, but several transactions in each have been effected.—Illouans are in request, at command prices.—North Gorkans have been dealt in, and each have been effected.—Illouans are in request, at command prices.—North Grambers and Wheal Crofty have been dealt in, and magnes.—North Grambers and Wheal Crofty have been dealt in, and magnes.—North Grambers and Wheal Crofty have been dealt in, and grees.—Olars Grambers and Wheal Crofty have been dealt in at quoted prices.—Carn Cambonks have also receded.—North Treeseers find buyers at minimum figures.—Olars Grand Wheal Crofty have been dealt in, and prices alighty advanced.
—Grand Wheal Fortunets have been in better request, and prices alighty advanced.—East Wheal Croft in provement.—East Rosswaintee continue quiet.—Polymers and where prices.—Carn Charles and Wheal Grand hands.—Polymers and Marcahers are rather quiet at

is also a good lode in the back of the 30, whilst other places are looking better; upon the whole, the mine is improved.

Easy Wheal Lovell is represented as still improving both in the shaft and in the back of the 38. The tin sold on Thursday last realised 418.19s., being the produce for the month. A further sale is anticipated provious to the meeting, which is conversed for Tuesday next, when a dividend of 5s. per share is expected to be declared, after payment of which a credit balance of about 280. Will be carried forward to the next second, St. AUNYM AND GRYLLS.—The operations are now being carried on in and above the deep adit, which is 40 ms. from surface. In two shafts in course of sinking, and now down 6 ms.; they have a very promising lode for tin, and improving every foot sunk. At 16 ms., from surface they have a lode worth 81, per fathom, and the deep adit is being driven to come under those productive places. During the last fortuight they have raised more tin than for the previous twelve months. All the operations being in whole ground, they are looking forward to a profitable mine for years to come. A general meeting was held on the 31st Aug., when the accounts for the twelve months showed a dobit balance of 283, 5s. 8d. By relinquishment of shares, the mine is now divided into 792 shares.

meeting was held on the Jist Aug., when we have a dobit balance of 253f, 5s, 8d. By relinquishment of shares, the mine is now utyawa a dobit balance of 253f, 5s, 8d. By relinquishment of shares, the mine is now utyawa. East Rogewards is represented to be looking better, and the ground in the shaft more favourable for sinking. The lode improved in the shaft about a fortnight since, and maintains its value, being still worth 14f. per fm. The 65 west is looking better, and there is a good lode in the sump-winze. Other places are also looking well. They have resumed driving the 12 east, on the north lode, which is improving, and producing some good work.— NATEGES: The discovery made here some few weeks since continues to look remarkably well, and holds out every promise of a perconnent and productive mine. In taking down the lode this week all that was anticipated from the last operation of the kind is fully realised, and although the work has not yet been completed, it is estimated at 1 ton per fm., which being rich for silver, high prices are expected. They purpose next week to open east, where the lode is equally large and valuable.

Jas. Lane.

next week to open east, where the lode is equally large and valuable.

Jas. Lane.

From Mr. James Cropts: — The market is exceedingly dull for most shares, and the exceptions fewer than usual. CLIFFORD AMALGANATED: Accident has had the effect of depressing these shares also, but no safer copper mine share can be bought, and held as an investment. East Ginenvilles yesterday advanced, phile upon the fact that an engine and boiler had been purchased for the mine exceedingly upon the fact that an engine and boiler had been purchased for the mine exceeding upon the fact that an engine and boiler had been purchased for the mine exceeding the provided of the sharing coming very valuable. There were a few sold at public safe yesterday much being a favour of the sharing coming very valuable. There were a few sold at public safe yesterday much being a favour of the sharing coming very valuable. There were a few sold at public safe yesterday much being a favour in the safe of market operations. WHEAR CRESON are drooping, but probably from the influence of market operations, they being a favourite stock for jobing purpose—safe to buy. Excellent news has been received during the week from Pant-x-PTDEW. CEFN CILEN, Mineral MINON, and The TWEEVE AFORTLES ANALOMATED MINES, which has led to business, chiefly with the present holders of the two former, who are increasing their interests. It should be stated that The Twelve Apostics has begun, since March last, the payment of interest out the capital of 5 per cent. per annum, which entities the mines to be placed in the dividend class. PENTEL LYGAN shaft is sinking to reach the lode as expeditionally as possible. CENTRAL MINERA, from its surroundings of Minera Union and The Apostles, offers first-rate chances of success. A speculator in Welsh lead mines on a large scale on the market is silently acquiring these shares, but very few offer for sale, and business consequently is limited. The fact, however, is ominous of success sconer or later, but perhaps not before long. All these

FOREIGN MINES.

FOREIGN MINES.

Alten and Quenangen.—C. Trelease, Aug. 20: Raipas: The shallow foot stope looks rather better, where the lode is 3 ft. wide, about half of which is composed of good orey work, full 3 tons per fm. Near this working there is an old winze, which we propose to re-open, that will enable us to clear the stuff, &c., much cheaper than at present. The south-west lode, which is divided into two parts, continues to yield remnerative returns, with favourable signs. The small velo of ore in the 20 west is disordered by a change of strata, and as there is but little chance of a speedy improvement we have decided to suspend it. The 20 is nearly dry, and we hope to resume the level, south easterly, in a week or two.—Old Mine: The slide in the 10, alluded to in our ast, has heaved (the lode; we are nearly through it, and do not expect the other part of the lode is far off, as we have some kindly orey branches in the end already. The stope in the back of this level yields from 3 to 4 tons of ore per fm. Further north we have latterly been rising above the old stopes, where the lode is 3½ ft. wide, composed quartz, chloride, and mundle, with orey work intermixed. In the 10 fm. foot stope, north of Pederson's rise, the lode is nearly 2 fms. wide, with a more quartzose matrix than usual, but it still yields from 3½ to 4 tons of ore per fm. In No. I side stope north the lode continue about the same size, and yields from 3 to 3½ tons of ore per fm. In the working south, from the top of Pederson's rise, the lode is from 10 to 11 ft. wide, and against the footwall it has improved in the past fortnight, there being now a promising leader of orey work, 2 ft. wide. There is no material change to note in the 5 fm. level foot stope, where the lode is large, with branches of good orey ground irregularly intermixed. We have recently began a level to go north from these stopes in order to lay open the ground more advantageously for future operations. Other parts of the miss look just as before. In Carr's adit the ground is a li

made to push on the most important points, and at present the prospects of the mine are highly encouraging.

ALAMILLOS,—Wm. Nutc, N. C. Morcom, Aug. 31: San Lino shaft is holed to the 3d level, and the men are now cutting a plat. In footway shaft, below the 2d level, the ground is more favourable for sinking—lode unproductive. The lode in the old winze is worth 1 ton per fathom, and improving as it goes down. We are of opinion that this winze will open out a good piece of ore ground. San Jose shaft, below the surface, has become very troublesome for sinking, having to contend with old works. In the 3d level, west of San Lino shaft, is lode is somewhat larger, but not to value. The lode in the 3d level, east of San Juan shaft, is worth ½ ton per fathom; it is small at this point, but improving.—General Remarks: The engineer has commenced the erection of the first engine. The house for the second is building with great rapidity. The whim is being put up at San Lino shaft, and will be completed in a day or two.

without much short the state of San Junn abait, is worth ½ ton per inthouse in a same loth in the content and the state of San Junn abait, is worth ½ ton per inthouse menced the erection of the rich gaing. The house for the second is building with a day or two.

PONTGIBATD.—W. H. Rickard, Sept. 2: Pranal: Nothing new has been done either in the 90 or 70 metre levels for the last week, the water being in, consequent on our changing the pump-wheel, which was completed on Saturday seeming list, and is working very well indeed; we hope to have the bottom of the mine dry support of the last week. It was completed on Saturday seeming list, and is working very well indeed; we hope to have the bottom of the mine dry support of the same list, and is working very well indeed; we hope to have the bottom of the mine dry support of the same list of the same list, and is working very well indeed; we hope to have the bottom of the mine dry support of the same list of the same list, and is more listed by the same list of the same list of the same list of the same list of the same list, and is a metre level north is unproductive. The same level south on the same list of the same list. The same list of the same listed, in the same list, in the same listed, in the same listed, in the same list, in the same listed, in the same list, in the same listed, in the same list, in the

see per fin. In the 85, east of Gine's wines, the men are still engaged in stoping down the bettom of Farra's wines. The lode in the 85, east of San Pablo's shaft, its raiber desired in value since last report, now worth 1 to no per fin. In the 16, east of San Mileguing the state of the 15 to 10 to

MINING IN THE FREIBERG DISTRICT.

MINING IN THE FREIBERG DISTRICT.

Although the high reputation of the Royal School of Mines of Saxony has rendered Freiberg celebrated throughout the world, the attention of English espitalists has hitherto been but little directed to the locality as a mining district, though it is well known that a vast number of valuable mines exist there which have long been idle, owing to the inability of the Germans themselves to provide the capital necessary for their development. An effort, however, is now about to be made to work a Freiberg mine with British capital, and as the mine is described, upon good authority, as being a very promising undertaking, it is believed that the results which will be obtained may be the means of inducing the attention of Englishmen to the mines generally of the district.

The Good Hope of Oberschöna Mine, or, as it is perhaps less cuphoniously designated by the Saxons, the "Grosse Hoffuung Fundgrube," is that which has been chosen with which to make a commencement; and of the eight setts included in the concession, it is proposed first to develope the Unverhoffter Segen Gottes and the Junger Schönberg Erbstollen, which are very favourably reported upon by Mr. T. E. Grad, the local Royal Mine Inspector and Assessor to the Court of Mines, who states that, after various vicissitudes, Unverhoffter Segen Gottes was worked again in 1728, and in the September quarter of 1729 a considerable quantity of ore was produced; the yield from that period to the end of 1739 from the upper levels, and principally from three lodes only, was upwards of 400 tons of ore, which contained nearly 6000 marks of silver, and realised over 72002. In the June quarter of 1747 the single lode—Gott hat geholfen Stehenden—paid 22.5 ss. per share dividend, and thence to the June quarter of 1754, the whole 4881.14s, original paid-up capital was returned, and 71471. 4s. in addition, distributed as dividends, Mr. Graff very justly remarks that if we take into consideration that this production was obtained from the upper le

Mining Correspondence.

Strip. 19, 1845.

MINIST JOURNAL.

MINIST STRIP.

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The lode, quartz, rinze, the Santana's ullermo's fin. The Taylor's to value. In the 30, d's shaft, ton per hard. In e, quartz, w the 20, 1 ton par 2½ tons Bleisno's latter 1½

ducing fairly for tin. To drive the cross-cut south in the 30 to hole at Knight's shaft, by six men, at 35s, per fm.—Knight's Shaft: Three stopes in back of the 20, on No. 2, No. 3, and No. 4 today, by fourteen men, at an average price of 16s, per fm.; the lodes are fire feet wide, yielding good saving work. To wheal the stuff in the 20 to Knight's shaft, at 84. for one month. To fill up and land all the stuff at Trestrail's and flat-rod shafts, by six men, at 171. 10s. for one month. To fill and land all the stuff at Knight's shaft, by two men, at 65 for one month. To spall and put to stamps tinatuff enough to keep 32 heads fully supplied, by six men and two boys, at 201. for one month. The lodes in the different stopes in the 60, when fairly out out, are 6 feet wide, of a very promising character, producing rich stones of tin. Also in the 30 and the 40, at Trestrail's shaft, the stopes coeasionally produce some beautiful deposits of tin, which appear to improve, and are better defined as the lodes get deeper in the granite, which clealy show the lodes for a great length continue large and productive, and only want to be properly developed and worked extensively in order to make them remunerative. All our surface matters are going on favourably, while the machinery continues in good working condition.

our surrace matters are going on havoursory, while the machinery continues in good working condition.

COED MAWE POOL.—M. Wealey, Sept. 9: I am glad to inform yan the late heavy rains have considerably increased the reservoirs, and the machinery continues to work well. The drainage is effected to 2½ fathoms below the 20. We fully expect to see the 28 next week, and resume driving on the lode; no doubt we can keep the water forked to this depth during the winter season with our present machinery, which will enable us to make some good trials on the lodes in the 28. We can also sink Mallet's shaft to the depth of the boundary, and open on the various lodes in that quarter. We have 15 men employed underground, as follows:—Two driving a cross-cut south from No. 1; two driving and from Mallet's shaft, on new lode; four driving west in Fridd set, in the 10; two driving and stoping on the new lode, in the back of the 20; three men raising ore east of Wasley's shaft, on Chandler's south lode; two men raising ore on tribute in No. 2 old workings. Having shipped nearly all the ore on hand recently, I can only report 3 or 4 tons of ore at surface now in course of dressing. As soon as the water becomes drained in the deep we shall withdraw the hands from the shallow ground, and place them to drive in the 28 fm, level, and sink Mallet's shaft with all possible dispatch.

350. 1; two driving morth from Mailat's shall, on new lode, in the last, of the 20; three sit, in the 10; two driving mad sloping on the new lode, in the last of the 20; three sit, in the 10; two driving and sloping on the new lode, in the last of the 20; three states in the water becomes drained in the deep we shall withdraw the hards from the shallow that the last of the 10 of the

sellation degils. The locks can is worked very cheegy, and more can say but that the property is it as an easy a miling suggification of a surject spike to the sellation of the

in the adit level, is 1 ft. wide, composed of quartz, capel, and good apots of tin cree. The the shaft for the present, and, consequently, to set the men to further search for the new lodes. I am glad to inform you that we have discovered a strong lode in the south part of the sett, near the farmhone; this lode we can trace for about 200 fathoms eastward, pointing towards the new gold discovery, called the Garm Mine.

EAST GUNNIS LAKE AND SOUTH BEDFORD.—J. Phillips, Sept. 10: In the 36, cast of the engine-shaft, we continue to drive by the side of the lode. In the 24, west of No. I winas, the lode has improved, and is worth 2½ tons of good ore per fm. We regret to state that the water in Gard's shaft has increased to such an extent as to prevent our sinking for the present. We, however, hope to drain the shaft again by the time the 26 and sets under it, or it may be before. We have past two of the shafts me in the 26, making eight, and working six-hour cores; the other six are placed in the 36, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and working six-hour cores; the other six are placed in the 52, making eight, and work

EAST MARGARET.—B. James, W. Williams, J. H. Birch, Sept. 10: At the engine-shaft, sinking below the 57, the lode continues small, and worth 134, per fm. for length of shaft (12 ft.) In the 85 west the lode is worth 104, per fm. for length of shaft (12 ft.) In the 85 west the lode is worth 104. per fathom. In the 57 east the lode is poor. In the 67 west, the lode is producing low-priced tinstuff. In the winze in bottom of the 67 west, the lode is worth 64, per fathom. In the 77 west the lode is worth 64, per fathom. In the 67 east the lode is worth 64, per fathom. No change in the cross-course. In the 57 east the lode is worth 64, per fathom. No change in 104, per fathom. In the winze in bottom of the 57 east, the lode is worth 104, per fathom. In the winze in bottom of the 57 east, the lode is worth 104, per fathom. The tribute, or the whole, is not so igood.

EAST PROVIDENCE.—T. Uren, Sept. 9: The following baryanins were set on Friday hast:—The new shaft to alink below the surface, by six men, at 64, per fm. 1 eree we expect to cut the lode soon. The 60 to drive west of Boorman's, by six men, at 104, per fm.; there we expect to cut the lode soon. The 60 to drive west of Boorman's, by six men, at 104, per fm.; the lode is 15 in. wide, worth 204, per fathom. A stope in back of the 60 west, by two men, at 44, per fm.; lode 12 in. wide, worth 93, per fm. A stope in bottom of the 60 east, by four men, at 54, per fm.; the lode is 16 in. wide, worth 204, per fm.

A winze to sink below the 60 west at Boorman's, by two men, at 104, per fm.; is believe the lode will soon resume its former size and quality. The 30 to drive south on the flockan, by three men, at 402, per fm. but this decline is only temporary, as I believe the lode will soon resume its former size and quality. The 30 to drive south on the flockan, by three men, at 402, per fm. Our object in driving this end is to get under the new shaft mentioned above.

EAST BOSE WALKNEE.—J. James, Sept. 10: There is a good branch of oro; in Hallett's shaft to the 75, w

We have put a man and boy to drive the 12 east on the north lode; it is improving, now John wide, composed of goasan, quarie, and killas, and a little black oxide of copper; the ground is easy; price for driving, 25, per im. Should this prove productive it will be a valuable appendage to the mine. The stopes and tribute pitches throughout the mine are without chance.

EAST THESKERBY.—John Nancarrow, Sept. 5: The lode in the 55 west looks promising; there is a good stone of ore in the breast of the end, and likely to improve. The ground in the 40 north continues favourable. The lode in the rise above the 40 is small. We have set a winze to sink from the stope below the 40, where there is a small rich leader of ore. We are making fair progress in clearing the eastern shaft.

EAST WHEAL GRENVILLE.—G. R. Odgers, Wm. Bennetts, Sept. 9: No lode has been taken down in the engine-shaft this week. The lode in the 65 cest is getting a been taken down in the engine-shaft this week. The lode in the 65 cest is getting a pretty lode, worth 2½ tons per im. The lode in the 65 cest is getting a proper of the cross-cuts at the 55. The stope above the 45 cest is worth from 81 to 101, per fm. The two stopes below the 45 west are worth 101, per fm. No change in either of the cross-cuts at the 55. The stope above the 45 cest is worth from 81 to 102, per fm. The two stopes below the 45 west are worth 101, per fm. No change in either of the cross-cuts at the 55. The stope above the 45 cest is worth from 81 to 102. From mo been any lode taken down in the 45 cest. The lode in the 45 west is fail 18 in. wide, and worth full 2 tone per fathom.

EAST WHEAL LOVELL.—J. Burgan, Sept. 9: The mine continues to look better. The lode at the shaft is turning out more than 1004. worth of tin per fm., and the back of the 26 produces more than 1204. worth per fm. We expect to meet with good results on the south lode, where we have discovered the old men's pumpe and machinery, and every appearance to justify an expectation of making similar discoverie

In the 88, west of Hitchina's engine-shaft, the ground in Wilhama's cross-cus, utring north, is a little improved for progress.

EAST WHEAL TOLGUS.—Sept. 8: The lode in the 34, west of the engine-shaft, is I flot wide, composed of soft spar, mundic, and peach. In the 34, east of John's shaft, the lode is 20 in. wide, consisting of peach, apar, and a quantity of mundic, with spots ore. The ground in the 34 cross-cut south is a little casier, and we hope shortly to get into a better channel of ground. In the adit level, east of the new shaft, the lode is 15 in. wide, consisting of spar, mundic, and gossan. The lode in the adit level, west of the new shaft, is 2 feet wide, consisting of gossan, spar, and mundic, a fine strong, kindly-locking lode. The ground in the adit cross-cut, south of the new shaft, is moderately easy.

the mine are looking pretty fair, and had not the breakage cocurred we should have sampled 30 tons this month. We shall, however, sell 25 tons of good lead to-morrow. MAUDLIN.—J. Tregay, Sept. 5: The lode in the 70 east end is composed of mundic, peach, and stomes of copper orse. The lode in the 70 west end is composed of mundic, peach, and stomes of copper orse; we are only carrying a part of the lode, about 4 ft., in each of those ends, the lode he help about 18 ft. wide.

MERILYN.—Wm. Sandoe, Sept. 9: Saturday last being our setting-day, I put the shaftmen to cut through the lode at the bottom of the whim-shaft; at this point it is about 2½ fms. wide, but I hope to reach the western or hanging wall, and be able to describe the character of the lode, &c., in my report a fortigith benec. The 30, driving south from shaft, is rather poor, producing now and then a slight mixture of ore; about 3 fms. behind this end we have started a rise in back of the level, and find the lode to produce an excellent mixture of lead ore. The stopes between this rise and the shaft are not so crey as they have been, but still yield very good dressing work. The 30, going north from shaft, is more kindly, and the lode now produces a little lead. The stope in the back of this level is worth 6 cwts. of lead ore per fm. During the past fortnight we have had some good lumps of lead from the new lode in the driving west at the western shaft, and the lode is highly promising. All other work on the mine progresses well.

MICHELL.—Wm. Sandoe, Sept. 9: No change of importance has taken place in our driving west from the bottom of the engine-shaft, ince last reported on; the lode here, although poor for lead, is of a highly promising character, and I have not the least doubt of meeting with good shoots of re by driving west, as we now are. Our water is very easy, and the engine required to work no more than half of the time.

MICHELL.—Wm. Sandoe, Sept. 9: The lode in the vinze sinking below the 62 east. A looking slittle enough the surface of

state the value for a day or two, I can safely say that it is quite equat to I ton or ore per fathom. I will write you again as we proceed. Next week we shall begin to drive sate also, by four men.

NANTY-IAGO.—J. Roach, Sept. 7: The engine-shaft is 4 fms. 2 ft. under the 20; the lode during last week was diffused throughout the whole width of the shaft, therefore it was not so good as usual; it has every appearance of becoming well defined again, insamuch as the footwall is a very pretty silectenside, with carbonate of lime, and a little lead ore lying thereon. The shaft is in good condition for sinking, and good progress is made; I expect next week to inform you of a great improvement having taken place in the lode. The stopes are without alteration. The mine is now pretty well cleared of stuff. The 20 west has been resumed. Dressing is going on a fast as possible. We shall soon send off a parcet of ore, and foward 100 tons of blende to Aberyst-with without delay.

cleared of stuff. The 20 west has been resumed. Dressing is going on as fast as possible. We shall soon send off a parcel of ore, and foward 100 tons of blende to Aberystwith without delay.

NETHER HEARTH.—Wm. Vipond, Sept. 5: There is very little change to notice in the end of east cross vein level. We occasionally meet with stones of ore, but it is very irregular, and not to value. The vein looks well for bearing ore at or near the next intersection. The end is set to drive by four men, at 55s. per fm.

NEW BHICH TOR AND VITIFER CONSOIS.—J. Lean, J. Symons, Sept. 4: Hambley's Shaft: In the 48 west, on main lode, the lode is small and poor. The 36 fm. level cross-cut cart having intersected a lode 8 ln. wide in this cross-cut carrying spar and tin, we have suspended the driving of this cross-cut for the present, and have let another cross-cut to drive south from the 12 at about this point. The main lode in the 35 east, on north lode, the lode is small and poor. In the 34 east, on north lode, the lode is small and poor. In the 34 east, on north lode, the lode is 9 ln. wide, worth 21, per fm. We have sat a new pitch in back of this level. In the 12 east the lode is small, producing an little tin. The rise in the back of this level, has been communicated with the old men's workings, and by taking down the lode here we find it very producitive. We have also let a new pitch in the back of this level, east of the fiss.—Lance's Shaft: In the rise in back of the 12 east the lode is 18 in. wide, composed of iron, and a little tin. The cross-cut triving north from adit tend west the ground very stiff, flowing with water. We omitted to say above it the weak of this level, east of the shaft between the 24 and 36. We calculate our sampling for the next month will be about 10 tons (four weeks).

NEW CROW HILL.—R. Hancock, J. Collins, Sept. 8: No alteration in the 35 and the old workings in the level are upon the north side of the lode, consequently we have began to drive a cross-cut south to communicate to our stopes, when

began to drive a cross-cut south to communicate to our stopes, when they get so has the 15. The pitches have turned out very well, and had we plenty of water for dressing we should have sampled 5 tons more; as it is, we sold yesterday out of the two months' raising 2 tons 10 cwts. 1 qr., at 221. 12s. 6d. per ton, and 9 tons 10 cwts. 2 qrs. at 12t. 9s. 6d. per ton.

NEW TRELEIGH.—S. Michell, Sept. 10: The lode in the rise in back of the 90 is improved since last week. The lode in the wines sinking below the 70, east of Carr's engine-shaft, is 4 ft. wide, of a promising nature, and apparantly getting down in orrey ground; at the present time it is worth about 2 tons of ore per fm. The lode in the 70 end, west of Symnos's, is looking better; in the last few days theore is of better quality, and the quantity rather more than when last reported on, 2 tons per fm. There is nothing of importance to remark in any other part of our tuwork operations this week. We have since our last setting-day set three additional pitches, which are looking favourable for the men, working at a moderate tribute.

NEW WHEAL MARTHA.—J. Seccombe, Sept. 10: The 74 cross-cut south is not yet through the lode, which continues to look well. In the level driving west from this cross-cut the lode is yielding fully 4 tons of copper ore per fathom, and very promising. In the 64 west the lode is composed of caple, par, and prism, with good saving work for copper ore. The lode being very large, I think it probable that we have not the most productive part in the end. At the 64 east we are driving a cross-cut south into the lode, which is composed of caple, par, and mundic, internited with copper ore—a very promising lode. At the 62 west the lode is at unproductive; in the wine sinking blow this level, is yielding 5 tons of copper ore per fathom; and No. 2 stope 7 tons per fathom. The lode with it is worth 201, per fathom for the part carried. No. 1 stope, in back of this level, is yielding 5 tons of copper ore per fathom; and No. 2 stope 7 tons per

stones of ore.—P.S. The parcel of ore sold on Thursday last, estimating 16 tons, has been weighed 16 tons, price 6f. Ils., amount 104f. 16s.

NORTH DOWNS.—F. Pryor, J. Grenfell, Sept. 10: There is nothing new to mention since last reported. The lock in the 60 has a promising appearance, and will produce full 1 ton per fm.; we mean the 60, cast of Benetit's cross-course; we shall see more of it shortly. The result you shall know.

NORTH JANE.—Jas. Evans, Sept. 8: We set Kerr's shaft on Saturday last to sink below the 30, at 17s. per fm.; it is now down 2 fms. 3 ft.; lode worth 3f, per fm. The end west, at 10f, per fm.; ide large, and worth 20f, per fm. The cross-cut to drive south, at 9f, per fsh. 10f, per fm.; lode large, and worth 20f, per fm. The cross-cut to drive south, at 9f, per fsh. 10f, per fm.; lode large, and worth 6f, per fsh. 10f, per fm.; lode 2 ft. wide, worth 10f, per fm. The cross-cut to drive south, at 9f, per fsh. 10f, per fm.; lode 2 ft. wide, worth 10f, per fm. The cross-cut to drive south, at 9f, per fsh. 10f, per fm.; lode 2 ft. wide, worth 10f, per fm. The cross-cut per water. We have holed the shaft on the Ready Money lode, and have set the gosaan to raise by six men, at 6s. 8d. in 1f. No appearance of the lode in the cross-cut driving south to the west of cross-course as yet. Our pitches are set at an average tribute of 11s. in 1f., and are producing good quality tinsuff.

NORTH LAXEY.—R. Rowe, Sept. 3: The engine-shaft is now 8 fms. below the 50; the lode is 3 ft. wide, composed chiefly of a soft congenial quarts and lead, worth 61i 2 tons per fm.; there is a heavy feed of water issuing from the lode. The lode in the 50 fm. level end, driving south, is now 2 ft. wide, and will yield from 10 to 15 cwis. of lead per fathom; this end has improved, and has altogether a very promising appearance. The stope in the roof of the 50 is yielding some nice ore at present, hitherto it has been a wind the surface.

NORTH MINERA.—Sept. 10: In driving the 25, north of eastern shaft, we have cut a shan

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is at present disordered by a gossan, now worth 13L per fm. In the new shaft, in the back of this level, it is 1½ ft. wide, worth 9L per fm.; and in ditte, sinking below this level, it is 2½ ft. wide, worth 17L per fm., for 9 ft. long. In the stopes in the back of this level, it is 2½ ft. wide, worth 17L per fm.; in the stopes in the back of this level it is 1½ ft. wide, worth 15L per fm.; and in the rise in the back of this level it is 1½ ft. wide, worth 15L per fm. In the stopes in the back of this level the lode is 2½ ft. wide, worth 15L per fathom. During the present week we have met with a lode in the 24 fm. level cross-cut, and have cut about 2½ ft. into it, but cannot yet see the south will; the south part of it is heaved down by a slide, which we have also in the end, and will require some little further driving to be intersected: so far as yet seen this lode is worth about 10L per fm. The ground in the 65 fm. level cross-cut is somewhat changing, and, judging from its appearance, it cannot be far from the lode. The ground in the new shaft, sinking from auriface, has this week been somewhat hard, which has interfored with our progress.

ing, and, 'indging from its appearance, it cannot be far from the lode. The ground in the new shaft, sinking from surface, has this week been somewhat hard, which has interfered with our progress.

WHEAL MARGERY.—It. James, W. Rogers, Sept. 10: At Wellesley's engine-shaft sinking below the 100, the lode is spotted with copper ore, but not sufficient to value. In the 122, east of the American shaft, the lode is worth 51, per fin. In the 122, east of ditto, the lode is worth 102, per fathous. In the 110, east of ditto, the lode is worth 62, per fathous. In the 110, east of ditto, the lode is worth 64, per fathous. In No. 2 winze in bottom of the 110, east of the American shaft, the lode is worth 104, per fin. No other change to notice.

WHEAL MARY ANN.—P. Clymo, H. Hödge, J. Harris, J. Stavens, Sept. 8: Clymo's shaft is sunk 11½ fathoms under the 180. In the 180 north the lode is 2 ft. wide, worth 81, per fin.; in the same level south it is at present disordered by the slide; the lode at this level hitherto has not been so productive as anticipated, but from the appearance of the lode gone down in the lavel above, we are daily expecting an improvement. In the 170 south it is 2 ft. wide, worth 91, per fin. In the 170, north of Poliard's shaft, it is 4 ft. wide, worth 104, per fin. In the 170, north of Poliard's shaft, it is 4 ft. wide, worth 104, per fin. In the 170 north it is 2 ft. wide, producing stones of lead. The stopes and pitches are producing much as usual. We sold on the 5th instant two parcels of lead ore -No. 1, computed 46 tons, to Messrs. Stock and Co., 251, 18s, per ton; No. 2, computed 20 tons, to Messrs. J. and J. Williams, at 134, 11s. 6d. per ton. By referring to the abstract of the accounts you will perceive we have credited but two parcels of crop ores, the third sold on Aug. 6 being July ores; we, therefore, think it right to leave that amount to meet July cost, which will place our accounts in a much better position.

credited but two parcels of crop ores, the third sold on Aug. 5 being July Ores; we, interfore, think it right to leave that amount to meet July cost, which will place our accounts in a much better position.

WHEAL MORRIS.—Wm. Bugelhole, J. Andrews, Sept. 5: The lode in the 52 end, driving east of Cremorne engine-shaft, is disordered by a horse of granite; there is a little tin in it, but not to value. We have holed the 35 fm. level, cast of Cremorne, to the 35 fm. level, west of Carter's shaft. A little west and east of the communication the civan course intersected the lode, and we purpose to strip down the lode east and west, where we holed to ascertain its value, as we have about 29 fms. of lode standing in this level, and have taken some excellent samples in different places from it.—Carter's Shaft: The men have completed their bargain, and commenced sinking the shaft below the 35 fm. level. The lode in the 35 fm. level, east of the shows shaft, is 18 inches below the 35 fm. level. The lode in the 35 fm. level with the winze sunk below the 15 fm. level. The rise men have resumed driving the 35 end east, and the men in 15 end commenced driving east also. We have finished building two round buddles, and the third is in progress. The water-wheel for working the buddles is made, and we are now waiting for the ironwork and working-gear to complete them. Our prospects are very encouraging. All the machinery and pitwork in the mine are working wery well.

WHEAL POLLARD.—W. C. Cock, Sept. 5: We are getting on very well with our preparations for the plunger, and hope to commence fixing the same by the middle part of next week, so as to have it completed by Saturday evening. The lode in the eastern end of the shaft appears to be less settled than in the eastern end, which I think accounts for the prement disturbed state of the lode.

end of the shaft is about 18 in. wide, of a kindly nature. In the western end of the shaft is split up in several small branches; the ground in this part of the shaft appears to be less settled than in the eastern end, which I think accounts for the present disturbed state of the lode.

WHEAL PROSPER.—E. Blewitt, Sept. 11: The lode in the engine-shaft, sinking helow the 50 fathom level, contains a little tin, but not sufficient to value. In the 50, driving west, we have recently intersected a cross-course; the lode west of this is producing good atones of tin, and looking promising for an improvement. The lode in the 40, west of Mitchell's shaft, is 18 inches wide, producing saving work for tin, and embedded in a beautiful white grantic, quite congenial for mineral. The stopes in the back of this level are worth 8½ per fathom. At the new shaft, sinking on the north lode, which is now down 6½ fathoms from surface, there is a lode of great promise, and yielding good stones of tin and copper at this shallow depth.

WHEAL TRELAWNY.—F. Pryor, K. Pryor, T. Grenfell; Sept. 5: There is nothing particularly new since reported for the meeting, with the exception of the 172, north of Chippendale's shaft, which is worth 122, per fm. We have set to-day two new endstime. I hope by our next setting-day to be in a pecition to begin to sink Trelawny's shaft, and shortly afterwards resume the sinking of Smith's shaft. It is also our infonction at the next setting to drive a cross-cut must be regarded entirely as a speculation.

WHEAL TREMAYNE.—R. Williams, J. Williams, Sept. 9: At the new enginoshaft, in the 143 west, the lode is about 4 feet wide, composed chiefly of elvans, with a leader on the north side about 10 inches wide, yielding good tinstuff; in the same level east the lode is disordered by elvans, yielding good tinstuff; in the same level east the lode is disordered with spar, which is now disappearing, and a good branch the branch has been disordered with spar, which is now disappearing, and a good branch the branch

Geology for the Million.—It was only a fortnight since, when alluding to the appointment of a Professor of Geology, that we remarked that the science of geology necessitates the perfect knowledge of so many other sciences that there is, perhaps, no chair more difficult to fill satisfactorily; but, in the very excellent little manual just published by Messrs. Routledge ("Geology for the Million." By Margaret Plues, Edited by Edw. Wood, F.G.S.), we have ample evidence that the general outlines of the science may be very readily acquired from an able instructor. In fifteen short chapters as much information upon the subject as most readers will care to possess is given, and, inasmuch as the whole of the statements made are in accordance with the opinions entertained by all the great authorities of the present day, the book is one which will form an admirable stepping-stone for those who propose to pursue the study further. The introductory chapter brings us down to the metamorphic rocks; whilst the succeding thirteen chapters treat respectively of the Silurian, Devonian, Carboniferons, Permian, Triassic, Lias, Ooite, Wealden, Greensand, Chaik, Tertiary, Post-Tertiary, and Post-Giacial systems, the remaining chapter being devoted to a few concluding observations. The various palmontological references are rendered thoroughly intelligible by numerous carefully-executed engravings, and a copious index is appended to the book, to complete its usefulness. Considering it as a whole, we think we are justified in saying that it is as cheap a shilling's worth of geological facts as has ever been published.

WEATHER PREDICTIONS.

Sin,—In one of my former letters I stated that to all appearance the late drought would extend far into the present mouth, and at the time I wrote there was every indication it would be so. That being the first drought in our climate since I made my discovery, I had no experience to guide me; but when another drought occurs I shall be comparatively master of the subject. As I have before stated, it will take years to collect all the details for data in the order of our sensitive climats. Every time I am in in our climate since I made my discovery, I had no experience to guide me; but when another drought occurs I shall be comparatively master of the subject. As I have before stated, it will take years to collect all the details for data in the order of our sensitive climate. Every time I am in error in my predictions gives me another field for enquiry, which generally ends in fresh discoveries, which enable me to get more accurate data for future predictions. For instance, about two years ago I made a mistake in the weather, and I had the pleasure of seeing myself in the newspapers about the "best abused persons in England." Well, by the discovery I made from that error I was enabled to foretel the rains in June last. Without that error I should not have been able to have done so. Consequently in future, when another drought occurs, I shall be enabled to foretel almost the hour it will end, and when the rains commence. Again, since I made my discovery we have not had a severe winter in England, and I have no doubt I shall be out of my reckonings when the next cold winter occurs; but when a second occurs I shall be prepared for the event. I am the first person who ever made a discovery in the order of our climate, and those who follows me will find that meteorology, like any other science, has its perplexing periods. Some people say, we want to be told to the hour when changes in the weather will occur. To this class I would say, why do you not do this for yourselves, and be independent of scientific men? But on frequent occasions I have done this; for instance, the winds foretold for the 6th nast. occurred to the hour, as also most of the changes in the weather will occur. To this class I would say, why do you not do this for yourselves, and be independent of scientific men? But on frequent occasions I have done this; for instance, the winds foretold for the 6th nast. occurred to the hour, as also most of the changes in the weather will be changes in the weather will be changes in the weather of the winds, scarce

mot expect, ask, or care for it.

With regard to the future: the weather will be changeable during the coming week, fine at intervals, with strong winds about the 20th.

26, Threamertou-street, Sept. 10.

GRORGE SHEPHERD, C.E.,
Author of the "Climate of England."

With last week's Journal we published a SUPPLEMENTAL SHEET, which with last week stournal we published a SUPPLEMENTAL SHEET, which contained an epitome of the contents of many of the more interesting papers read before the British Association for the Advancement of Science, at the meeting at Newcastle-on-Tyne, just concluded; upon a future opportunity we shall allude to other of the papers. An interesting paper on Aluminium will also be found, and various other useful information.

The Mining Market; Prices of Metals, Ores, &c.

METAL MARKET-LONDON, Sept. 11, 1863.

| coppen. £ s. d. | BRASS, Per. lb. |
|--------------------------------------|---|
| Best selectedp. ton 98 0 0 | Sheets 834d1034d. |
| Tough cake 95 0 0 | Wire 9d91/4d. |
| Tile 95 0 0 | Tubes 11d121/d. |
| Burra Burra 98 0 0-99 (| |
| Copper wirep. lb. 0 1 0-0 1 | |
| dittotubes 0 1 0% 0 1 | |
| Sheathing & bolts p.ton 102 0 0 | Ditto, in faggots 17 0 0-18 0 0 |
| Bottoms 104 0 0 | English, Spring 18 0 0-23 0 0 |
| Old (Exchange) 85 0 0 | Bessemer's, Engineers Tool 44 0 0- |
| IRON. Per Ton. | , Spindle 30 0 0- |
| Bars, Welsh, in London. 7 10 0 | QUICESILVER 7 0 0 p. bottle |
| Ditto, to arrive 7 5 0- 7 10 | 0.0 |
| Nail rods 7 10 0- 7 1 | erantes, fer ion. |
| " Stafford, in London 8 5 0- 8 1 | a language services to It hall An |
| Bars ditto 8 5 0-8 1 | |
| Hoops ditto 8 17 6- 9 10 | |
| Sheets, single 10 0 0-10 1 | |
| Pig, No. 1, in Wales 3 10 0-4 | |
| Refined metal, ditto 4 0 0-5 | ***** |
| Bars, common.ditto 6 7 6-61 | |
| Ditto, merchant, in Tees 6 12 6- | |
| Ditto, railway, in Wales 6 2 6-6 | |
| Ditto, Swed, in London, 11 10 0-12 1 | |
| To arrive | 0.01 |
| Pig, No. 1, in Clyds 2 17 0- 3 | O O TIN-PLATES." |
| Ditto, f.o. b. in Tees 2 10 0-2 1 | o Charcoal, 1st qua. p. bx, 1 76-1 86 |
| Ditto, forge, f.o.b. in Tees 2 5 0-2 | 7 6 1X Ditto 1st quality " 1 15 6- 1 14 6 |
| Raliway chairs 5 10 0- 5 1 | 5 0 IC Ditto 2d quality p 1 4 6- 1 6 0 |
| " spikes 11 0 0-12 | 0 0 1X Ditto 2d quality " 1 10 6- 1 12 0 |
| | IC COK0 p 1 2 0- 1 4 0 |
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| English Pig, ordny. soft 20 0 0-20 1 | |
| Ditto (WB) 21 7 6-21 1 | |
| Ditto sheet 20 15 0-21 1 | |
| | Ghasta = 15 44 01/4 |
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| Ditto patent shot 23 0 0 | |
| Spanish 19 10 0 | in London |
| • At the works, | 1s. to 1s. 6d. per box less. |
| | |

-We are enabled this week to record a much more satisfac REMARKS.—We are enabled this week to record a much more satisfac-tory state of affairs in our market; a considerable improvement has taken place, not only in the prices of some metals, but also in the amount of bu-siness transacted, and there is every probability of these favourable appear-ances continuing for some time, and that the close of the year will be marked by a far greater activity in our market than has characterised it

COPPER.-Transactions in this metal have been but trifling; if anything

prices are not quite so firm as last week.

Inon.—Considerable activity has manifested itself in this metal, and, in accordance with the anticipation expressed in last week's Mining Journal, a further advance has taken place in prices. On the 7th inst. notice was received from some of the Staffordshire makers that a further advance of 10s. per ton had taken place upon every description of Staffordshire iron. Others will only quote subject to the prices to be fixed at the next quarterly meeting, and there is no doubt that this advance also will become quite general. To-day holders of stock of Welsh bars in London announced an advance in their make of 10s. per ton. On all sides the intelligence from the iron districts is of a most cheering character, and indicates a continuance for some time of the activity which now prevails. The horse-nail makers of South Staffordshire and East Worcestershire have demanded a rise of 6d. per cwt. in their wages, which the masters, howprices are not quite so firm as last week. demanded a rise of 6d. per cwt. in their wages, which the masters, how-ever, have determined to resist. The men have given a fortnight's notice to their employers that if at the expiration of that time their demad is not to their employers that it at the expiration of that time their definant is not complied with they will all strike work. Scotch pigs have been very active during the week; extensive transactions have taken place in warrants, and large orders have been received for shipment to America; prices have been gradually creeping up, and the last report from Glasgow announces a very excited market, probably increased by a strike in the Middlesbro' district, and a large business was done at 57s. cash, 57s. 6d. and 57s. 9d. one month, 58s. two months, and 58s. 3d. three months, closing rather called the contract of 10s per too has been appropring digitations of 10s per too has been appropried in Glasgow have sellers. An advance of 10s, per ton has been announced in Glasgow bars. At the meeting of Scotch ironmasters, on the 9th inst., which was well attended, it was decided to resist the demand of the miners; the strike

continues, and has spread to the pits of other firms in the district. Swedish iron is more quiet, importers holding for higher prices.

Lead remains the same as last week, with a rather better tone.

Tin.—The market continues to assume a downward tendency, English refined may now be bought at 2l. under quotations, and a further decline is not improbable. Transactions in Straits have taken place at 115l. cash, and there is every apparance of the market still dropping sine which its

is not improbable. Transactions in Straits have taken place at 115t. cash, and there is every appearance of the market still drooping, since which it has been sold at an equivalent to 114t. 10s. cash.

Spelter is still looking upwards, operations having occurred at 18t. 15s., since which 50 tons have been sold at 18t. 17s. 6d., ex ship, and 19t. has been paid for November delivery. The market looks very well, and the tendency is still for higher prices.—An advance in Zinc has taken place, and it is now quoted at 25t. per ton.

Speki.—The demand for Swedish is rather better, but business transactions are not very extensive.

actions are not very extensive.

TIN-PLATES.—Prices remain very firm, and it is not unlikely that in consequence of the advance in iron they may ere long be increased.

QUICKSILVER.—The stock in London is not yet supplied, and buyer can only purchase for arrival. The demand continues good.

THE PRESENT POSITION OF THE SCOTCH IRON TRADE.—There are THE PRESENT POSITION OF THE SCOTCH IRON TRADE.—There are, to-day, 125 furnaces in blast, producing about 21,500 tons weekly. The total deliveries continue steadily in excess of the make, and will be this week fully 25,000 tons. Consequently, the stocks are about 35,000 tons less than they were four months ago. The malleable ironworks, foundries, and shipbuilding-yards on the Clyde were never so actively employed and full of orders. So great is the demand for iron for shipment and local consumpton, that ironmasters have raised their prices 2s. to 3s. per ton. The makers, at their meeting on Wednesday, resolved to resist giving the advance of 1s. per day demanded by their miners; apprehensions, therefore, exist that a general strike will be the result.

THE TIN TRADE.-Messrs. Von Dadelszen and North, under date Sept. 4, write:—In our last report we had to notice the extreme depres-sion of this article, and the downward tendency has made further progress during the past month. Every fact that became known only increased the fears of holders. An anticipated reduction in the price of English

three months prompt; from this the re-action set in, and prices have grad clined to 1161. cash, and 1171. to 1181, three months open. Most of the cast current to 1164, each, and 1174, to 1184, three months open. Most of the cash parcels have been taken for export. Consumers and speculators keep aloof, in the expectation of still lower prices. We cannot report any besiness whatever in Banca, and it is almost impossible to effect sales, and prices are quite monthal. We quote from 1234, to 1244, on the spot, with three months prompt. The Dutch market has kept its position pretty well; the transactions during the month amount to about 5000 slabs, from 75 fl. down to 75 fl., and up again to 73\(\frac{1}{2}\) fin sellers. We estimate the present stock of tin in warehouse here at 2554 tons.

a in warehouse nere at 2004 tour.

Boston (U. S.), Aug. 24.—Most of the arrivals of Picton and Sydney

Boston (U. S.), Aug. 24.—Most of the arrivals of Picton and Sydney and were previously disposed of on contract. Cargo sales, at \$6.75 to \$7 per ton. In thiractic there have been steady sales at \$9 per ton, cash, in retail lots. Scotch pigon is scarce, and higher prices have been obtained; the sales have been confined to mail lots, at \$35 per ton, cash, but supplies are soon expected, and this price will be but mail lots, at \$35 per ton, cash, but supplies are soon expected, and this price will be but maporary. American pig has been settling at \$35 to \$37 per ton. In bar-iron very little as been done. The last sales of Russian sheet were at 17 c., cash.

The MINING SHARE MARKET continues flat, with very little business doing; indeed, it is more than usually dull, even for this time of the year, and, in the absence of general business, quotations decline, and become most cases, merely nominal. The mines mostly dealt in have been East Russell, Gonamena, East Caradon, Clifford Amalgamated, Wheal Basset, Bryn Gwiog, Providence Mines, Tincroft, West Chiverton, North Treskerby, Cast Grenville, South Grenville, East Basset, Drake Walls, South Tolgus, Crebor, Wheal Harriett, Wheal Trelawny, North Crofty, Great Retallack, Wheal Unity, Great Wheal Fortune, Marke Valley, and a few others. Bryn Gwiog, 32 to 33; the mine has improved in the 90 west to 4 tons per fm. Cook's Kitchen, 23½ to 24. Drake Walls shares have been rather firmer, and leave off 34s. to 36s. East Basset, 80 to 82½; East Carn Brea, 7½ to 8. East Russell advanced to 4½, and in demand, but leave off 3½ to 4. South Frances shares continue very flat, at 62½ to 65, chiefly on account of the report, rather freely circulated, thatthere is a doubt about the new lease, which, probably, a few words from the committee would clear up to the satisfaction of the shareholders. At the meeting, held on Monday, a dividend of 1l. per share was declared, leaving 711l. 3s. 5d. in hand. The profit on the two months was 379l. 0s. 1d. During the past two months the north part of the north lode has been intersected in the 154, 28 fms. west of Harriett's cross-course, by a cross-cut of 4 fms., and since communicated with the winze sunk below the 144. In the cross-cut the lode is a little squeezed, and worth 5l. per fm. This part of the mine is considered as one of great importance, as the lode is standing to the north of the 154 for a considerable distance. Condurrow, 100 to 110; at the meeting the accounts showed a loss on three months' working of 2473l. 2s. 8d., and a balance against the mine of 3573l. 0s. 3d.; but the agents calculate there are from 40,000 to 50,000 tons of tinstuff in reserve, and that the floors, &c., are crowded with stuff calculated to contain 75 tons of black tin, worth nearly 5000k.; and in six weeks the encincer has promised to have the new evening at weeks the encincer has promised to have the new evening at the provincer has promised to have the new evening at the provincer has promised to have the new evening at the provincer has promised to have the new evening at the provincer has promised to have the prevence of th East Grenville, South Grenville, East Basset, Drake Walls, South Tolworking of 2473l. 2s. 8d., and a balance against the mine of 3573l. 0s. 3d.; but the agents calculate there are from 40,000 to 50,000 tons of tinstaff in reserve, and that the floors, &c., are crowded with stuff calculated to contain 75 tons of black tin, worth nearly 5000l.; and in six weeks the engineer has promised to have the new engine at work, when the accounts will soon be improved. Gonamena shares advanced to 3½, but have become flat again, at 2½ to 3. Clifford Amalgamated shares have fluctuated very much—at one time down to 33, upon the report of a further accident; but they soon rallied again to to 35, and leave off 33½ to 34½. The committee issued a circular under date of the 5th, informing the shareholders that the run in back of the 220 is about 15 fathoms long; and it will take about four weeks to clear and secure the level. This, they state, will not affect the present rate of dividends, and the mines have improved since the meeting on the 19th. Grambler and St. Aubyn shares have been enquired for, and leave off 12 to 14; at the meeting, on Tharsday, a call of 1l. per share was made, the accounts showing 514l. against the company. Since the meeting held in May the workings at the north part of the mine have been stopped, agreeably with the resolutions then passed; and the necessary pitwork has been fixed at the engine-shaft, and the water forked to within 2 fms. of the bottom (72 inthoms from adit). In clearing out the eastern levels, about 40 fms. east of shaft, the south part of the lode is 3 ft. wide, producing good stones of yellow copper ore; and, as the old workers had a productive lode up to this point, and scarcely any ore after they drove off in the north part, the agents consider the south part in the 15, 25, and 48 fm. levels as soon as they are cleared. Great South Tolgus, 4½ to 4½. Wheal Mary Ann. 12 to 13; at the meeting the accounts showed a loss on the quarter of 452l. 13s. 1d., and a balance now in hand of 1207l. 8s. Clymo's shaft is sunk 11½ fms. under the 180. The reason of the

to 25; North Basset, 3 to 3\frac{1}{2}; North Crofty, 3\frac{1}{2} to 3\frac{1}{2}. Wheal Grenville shares have partaken of the general dulness, and leave off 5\frac{1}{2} to 6\frac{1}{2}, rather flatter, though the mine has improved. East Grenville shares have been firmer, and leave off 3\frac{1}{2} to 3\frac{1}{2}. Wheal Crebor shares declined to 30s., but leave off 30s. to 33s.; no change at the mine. South Grenville shares still largely dealt in, at 5s. to 6s. North Dolcoath, 2 to 2\frac{1}{2}; North Downs, 1\frac{1}{2} to 2\frac{1}{2}.

Great Retallack shares have been more dealt in, at 5s. to 7s. 6d.; a lode has been cut in the adit, 1 foot wide, and about 1 cwt. of good lead broken; this is only 9 fathoms from surface. North Treskerby, 3\frac{1}{2} to 3\frac{1}{2}; Glasgow Caradon, 3\frac{1}{2} to 4\frac{1}{2}; South Caradon, 4\frac{1}{2} to 42; South Tolgus, 37\frac{1}{2} to 40; Stray Park shares not so firm, at 37 to 39. Prince of Wales, 5s. to 7s. 6d.; there is a very promising lode in the shaft, also in the Good Luck and south lodes. Tincroft, 20 to 20\frac{1}{2}; Wendron Consols, 9 to 10. West Caradon, 20 to 22; at the meeting the accounts showed a loss on the two months' working of 704\frac{1}{2}, and a balance in hand of 2\frac{5}{2}0\frac{1}{2}. West Chiverton, 31 to 33. Wheal Basset, 75 to 80; the mine is looking better for tin; they expect to sell 1200\frac{1}{2}. worth for the two months. Wheal Grylls, 28 to 30; Wheal Ladcott, 3\frac{1}{2} to 3\frac{1}{2}; Wheal Ston, 217\frac{1}{2} to 22\frac{1}{2}. Wheal Unity, 14s. to 16s.; the lode in the 40 west has improved to 1 ton of ore per fm. Wheal Unity, 5\frac{1}{2} to 2\frac{1}{2}; the west stope has improved to 80\frac{1}{2} per fm.; the stopes in the back, 10\frac{1}{2} to 2\frac{1}{2}; the west stope has improved to 80\frac{1}{2} per fm. Pendeen, 6\frac{1}{2} to 6\frac{1}{2}; the lode in the 118 south has improved to 12\frac{1}{2}. per fm.; the 13\frac{1}{2} es morth 40\frac{1}{2}. per fm.; the 50 esst, 12\frac{1}{2}. per fm.; the 13\frac{1}{2 st the company, 62l. 3s. 10d.

On the Stock Exchange, a moderate enquiry has existed for Mining Shares during the week. The following prices were officially recorded in British Mining Shares:—Clifford, 34½, 35; East Caradon, 29½, 29; Providence, 42, 42½, 42; Tincroft, 19½; Wheal Ludcott, 3½, 3½, 3½; East Basset, 79½, 80½, 80½, 81, 80; East Wheal Russell, 3½, 4; Great Wheal Vor, 8, 8½; Great South Tolgus, 4½. In Colonial Mining Shares the prices were:—Port Phillip, 1½, 1½; Scottish Australian, ½; Yudanamutana, 3, 3½, 3; Worthing, ½. In Foreign Mining Shares the prices were:—St. John del Rey, 55½, 56½, 55½, 56; United Mexican, 6½, 7, 6½, 7½, 7, 7½, 7½, 7½, 7½, 7½; Vallanzasca, 1; Montes Aureos, 2½; Don Pedro, 1.

74, 74, 74, 74, 74; Vallaneasca, 1; Montes Aureos, 24; Don Fedro, A.

IRISH MINE SHARE MARKET.—We had considerable animation this week, arising from the recent transition of the Wicklow Copper Company, and their consequent increase in public favour. The shares of the new company opened at 121. 10s. each for deferred transfer, and quickly advanced to 131. cash, which is equal to 521. for an old share (of 51. paid), and to an upward movement amounting to about 64 per cent. in less than a fortnight. The shares of the Mining Company of Ireland were firm at last quotation, but not much was done in them. Other mines shares were more neglected. Subjoined will be found the reports of the recent meetings held of the shareholders in the Wicklow Copper and Connorree Mining Companies. We have already referred to the proceedings of the same,

but we think it of great importance to call the attention of our readers to the few remarks made by the directors of the Connorree Mines on the subject of their application of a boring-machine. It will be seen that Mr. George Low, of Newark-upon-Trent, has engaged to furnish these mines with a machine capable of boring 1 fathom "forward" per day, and has thus far been sufficiently successful with his apparatus to venture on a contract under heavy penalties. From the sound judgment and onergy herein displayed by the directors they decidedly deserve much praise, not only from their shareholders, but from all interested in mining. The advantages of the application of mechanical power to driving levels and sinking shafts are immense in point of saving of time, and cannot fail to be as profitable, in the end, to the working miners as to the mineowners. We fell inadvertantly into error last week, when we stated that the total profits divided by the late Wicklow Copper Mining Company amounted to 135,570. This amount referred only to a particular period, the actual total having been no less a sum than 228,000. after making most liberal allowances for depreciation of the valuable machinery on the mines. We may also call attention to the great increase in this mine in low-priced copper ores since the managers bestowed more care upon the production of it. It deserves particular notice that the directors of so successful a mining company made no charge for their valuable services for the last three half-years, and left it to the decision of the shareholders whether the trifling balance (of the old amount) of 250l. should be awarded to them or not, which, of course, was most cheerfully done.

which, of course, was most cheerfully done.

The Connorree Mining Company, in their half-yearly report, refer to ageters of some general interest, and of which we should like to hear more:

"The chemical experiments on the poorer copper ores, as indicated in our just report, have since been prosecuted with great care by Mr. Maynard. In the course of his operations he has arrived at results that give us every reason to expect a more economical treatment of the ores, and an increased percentage of copper for shipment. The simplicity and cheepness of the process have induced the directors to discontinue for the present all the other chemical experiments on the ores of the mines.

"The works in Shroughmore (north of the old mines) are at present confined to the driving of the deep adit. This has been now extended 130 fathoms, and from the indications presented should soon intersect Browne's lode. The directors, deeming it most important that this great work should be pushed on with the utmost vigour, have concluded a contract with Mr. George Low, mechanical engineer, Newark-upon-Trent, for a boring-machine, with all the necessary appearatus for working it, by which a fathom forward per day can be excavated. This they have had proof of from the practical trials already made at the mine by one of Mr. Low's machines. He is bound under heavy penalties to have it in full work by a given time, and they trust at the next half-yearly meeting to be able to report considerable progress from its operations."

The Bellabio Lead Mines, which are situated a few miles from Lecco, in Northern Italy, are about to be worked by an English joint-stock company, with limited liability. The property has been carefully inspected by Mr. Geo. Darlington, who, in an elaborate report, which will be found in another column, states the levels already driven lie probably 2500 ft. above the lake. The ore deposit is a bed of limestone, in which veins, strings, lumps, and detached masses of excellent galena, are found; and it may be termed, instead of a bed of ore, a bed of plumbiferous limestone, but one in which the lead ore exists in a massive and not a disseminated condition. Mr. Darlington estimates the average yield of ore will be about 18 cwts. per ton of vein stuff; and that, allowing for all dead charges, and calculating upon a return of 250 tons per month, a net profit of 161. 10s. per ton will be realised, which will pay 35 per cent. upon a capital of 50,000l. He proposes that the whole bed should be removed by a system analogous to the long-wall system of coal working. The detailed prospectus will, we understand, be issued shortly.

The Zollern Colliery Company of Dortmund. Westphalia, has issued its.

moderstand, be issued shortly.

The Zollern Colliery Company of Dortmund, Westphalia, has issued its prospectus, which will be found in another column of this day's Journal, for the issue of 75,000/. worth of preference shares, of 15\(\text{L}\) cach. The holders of these shares are to be entitled to 10 per cent. per annum dividend out of profits before any distribution is made among the original shareholders, and \(\text{5}\) per cent. interest upon the calls paid is guaranteed to them until the colliery is in full working order. As the shares will be issued at 85 per cent, the preference dividend will really exceed 11 per cent, per annum. The whole of the necessary buildings and machinery (with the exception of one additional powerful pumping-engine, requisite through water having been met with, which was not anticipated) have been erected, and are in good working order, and the property is within easy reach of the Rhine, and of good shipping ports on the German Ocean. It is estimated that with an average production of 1000 tons per day (a quantity which could readily be obtained, considering that there are the whole of the valuable seams beneath upwards of 3000 English acree of surface) an annual dividend of 10 per cent. would be realised both on the preference the valuable seams beneath upwards of 3000 English acres of surface) an annual dividend of 10 per cent. would be realised both on the preference and on the original capital. The cost of production does not exceed 3s. per ton, which estimating the selling price at 5s.—the lowest price that has ever been quoted in Westphalia—there would remain a profit of 1008, per day. The coal being well adapted both for coking and for general purposes, would at all times secure a ready market. The property has been carefully inspected by two of the local Government mining officials, and by Mr. W. T. Mulvany, an English mining engineer, who is also the owner of colliers in the district, which are yielding good returns.

owner of collieries in the district, which are yielding good returns.

Reliable information has been received in London that the concession which was promised for the establishment of an English and Russian Bank has, on the 3d inst., received the final confirmation and signature of His Imperial Majesty the Emperor of Russia. The concession gives the Bank referred to the privilege to carry on banking business (with such branches as the court of directors may at any time consider advisable), in any part of the Russian empire, for an unlimited period. The name of "The English and Russian Bank," under which a considerable amount of the capital (2,500,000L) has already been subscribed; and with which the eminent banking firm of Messrs. Robarts, Lubbock, and Co., and Messrs. Ricardo, stockbrokers, are connected, will probably be changed on the publication of the names of the directors, in consequence of other parties having registered the title of English and Russian Bank before the concessionaires were in a position to secure themselves against such an infringement.

were in a position to secure themselves against such an infringement.

At Redruth Ticketing, on Thursday, 2177 tons of ore were sold, realising 10,444ℓ, 17s. 6d. The particulars of the sale were:—Average standard, 115ℓ, 8s.; average produce, 6½; average price per ton, 4ℓ. 16s.; quantity of fine copper, 142 tons 8 cwts. The following are the particulars:

Date. Tons. Standard. Produce. Price per ton. Orse copper. Aug. 13. 2885 ... £18 11 0 ... 676 ... £5 8 0 ... £78 9 0 ... 20... 5173 ... 124 8 0 ... \$64 ... £8 0 ... £76 14 0 ... \$77 ... 2572 ... 118 7 0 ... 646 ... \$5 0 6 ... \$76 14 0 ... \$77 ... 2572 ... 118 8 0 ... 54 0 ... \$75 12 0 ... \$10 ... 2177 ... 118 8 0 ... 676 ... 4 16 0 ... 73 6 0 ... \$25 0 ...

At the Swansea Ticketing, on Tuesday, 1806 tons of copper ore were sold, realising 19,416%. 6s. 6d. The particulars of the sale were—Average standard, 97%. 9s. 6d.; average produce, 135-16; average price per ton, 10%. 15s.; quantity of fine copper, 240 tons 8 cwts. The following are the particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Price per ton. Ore cop.

Aug. 11 2075 £101 13 6 ... 13 11-16 £11 13 6 ... £85 12 0 g. 25 ... 1894 ... 100 18 6 ... 133% ... 11 10 0 ... 84 8 0 Sept. 8 ... 1806 ... 97 9 6 ... 13 5-16. 10 15 0 ... 80 15 0 Compared with the last sale, the decline has been in the standard 3% 10s., and in the price per ton of ore about 9s. 6d. Compared with the corre-Compared with the last sale, the decline has been in the standard 3t. 10s., and in the price per ton of ore about 9s. 6d. Compared with the corresponding sale of last month, the decline has been in the standard 4t. 15s., and in the price per ton of ore about 12s. 6d. Of the 1806 tons sold on Tuesday, 808 tons were British ores, which gave an average produce of 10½, and sold at an average standard of 101t. 7s. = 7t. 19s. 6d. per ton of ore; the remaining 998 tons were foreign ores, which gave an average produce of 16, and sold at an average standard of 95t. 9s. = 13t. 0s. 6d. per ton of ore. On Sept. 22 there will be offered for sale 2421 tons, from Cobre, Berehaven, Knockmahon, Kanmantoo, Connorree, Victoria, and Cape Copper Company's Mines. and in the pr

At the West Caradon Mine meeting, on Wednesday (Mr. Hallett in the lair), the accounts showed assets over liabilities of 2590i. 11s. 2d. Details will be found

chair), the accounts showed assets over liabilities of 2020t. 11s. 2d. Details will be found in another column.

At the Wheal Mary Ann meeting, on Tuesday, the accounts for three months ending June showed a credit balance of 1207t. 8s. The loss on the quarter's working was 452t. 13s. 1d. The captains' report is among the Mining Intelligence.

At Grambler and St. Aubyn Mine meeting, on Tuesday, the accounts for the four months ending July showed a debit balance of 514t. A call of 11. per share was made. Thanks were voted to the Duke of Buckingham and Mr. Trelawny for remitting the dues during pleasure. Capt. John Michell reported that they were getting on very well with their surface work, the engine and pitwork are in good condition, and working well.

At New Rosewarne meeting, on Sept. 4, the accounts, including the costs for June, showed a debit balance of 900t. 6s. 5d. A call of 1t. per share was made. It was resolved that a report be sent to the Mining Journal upon the third Friday in each month. The report stated that in looking at the ore ground standing in the bottom of the 56 fm. level, both east and west of Rickford's shaft, which is about 40 fms. in

length, and seeing the improvement that has taken place in the appearance of the lode below this level, the agents were of opinion that the next level would lay open a first-rate piece of tribute ground. The report concluded by stating that it should be borne in mind that during the whole time the present company had been working they had had to contend with heavy and extra expenses.

At the Trelyon Consols Mine meeting, on Sept. 2, the accounts showed a debit balance of 611. 14s. 5d. The agents' report stated there were 90 men employed underground, and the number would be monthly increased in laying open and taking away profitable ground.

underground, and the number would be monthly increased in laying open and taking away profitable ground.

At the St. Aubyn and Grylls Mine meeting, on Aug. 31, the profit and less account during the twelve months, ending June 30, showed a debit balance of 2531, 38. 8d. The agent's report stated that the deep adit level, 40 fins. from surface, would soon be under the improvements, from which time he was happy to say that they could not only pay the current cost, but could see their way clear to a profit; and as for some years the greatest part of their tin had been raised from above the deep adit level, they were safe in calculating on having a profitable mine for years to come, provided they confined their operations to that depth. There had been raised more the from the tatwork ends in the last fortnight than throughout the previous twelve months.

At Condurrow Mine meeting, on Sept. 2, the accounts for the three months, ending with the costs for May, showed a loss of 2473. 2s. 8d. The debit balance was 3576. 0s. 3d. The report of the agent stated that there were from 40,000 to 50,000 tons of instutf in reserve, and ready to be taken away when required—this has been opened within the last two years. The stamping-floors are crowded with tinstiff, computed to contain, together with the accumulation at the stamps, about 75 tons of biast tin.

ack tin.

At Rosewall Hill and Ransom United Mines (committee) meeting, on

Nat Rosewall Hill and Ransom United Mines (committee) meeting, on Aug. 31, the managing agent informed them that the progress anticipated in opening some of the ore ground between the 80 and 90 fm. levels, east of the Ransom engineshaft, had not been made, in consequence of a deficiency of air and hard ground, which, combined with the failing off in the prospects in the vicinity of the engine-shaft, have leasened the immediate returns of tin, and recommended that the next account be held in December instead of September, as was intended, by which time it was considered the mine would be in a better position. The committee thought it next advisable, under the circumstances, to act upon such recommendation, and postponed the holding of the account accordingly.

At Pedn-an-drea United Mines general meeting, on Tuesday (Mr. Herbert Lawis in the chair), the accounts for the three months ending June showed a balance of assets over liabilities of 41, 10s. 7d. The agents' report was very encouraging. The black the soil for the quarter amounted to 4535t. 4s. 2d.; copper ore, 109t. 16s. 7d.; arseniz, 48t. The cests for the three months ending June was 4679t. 12s. 4d. After the general, a special meeting was held, when the resolutions previously passed to separate Wheal Sparnon were unanimously confirmed. The mine was divided into 6000 shares, and a 2s. call made per share. Capts. W. Tregay, T. Delbridge, and J. Thomas thus conclude an elaborate report—"We have often expressed a favourable opinion of these mices, and all the changes noticed as we deepen do but strengthen that opinion; for, notwithstanding occasional disappointment, and falling off in value from the richest bunches at certain points, we have found that each level as we have gone down into the grantic has increased in general productiveness, and we have every reason to expect the next level to be still more productive than either of the others."

At Great Brigan Mine meeting, on Thursday (Mr. J. E. Mathew in the chair), the accounts showed a debit balance o

Brigan boundary.

At the Great North Downs meeting, on Thursday (Mr. J. E. Mathew in the chair), the accounts showed a debit balance of 24881, 12s. 8d. A call of 10s. per share was made. The report from the agent was considered highly satisfactory.

At the Chiverton Mine meeting, on Thursday, the accounts for four mouths to the end of July showed a credit balance of 33611, 13s. 6d. The agent's report and the details of the meeting will appear in next week's Journal.

At Caradon Consols meeting, yesterday (Mr. J. A. Buckland in the chair), the accounts showed a debit balance of 621, 3s. 10d. A call of 12s. 6d. per share was made, and the committee re-elected.

was made, and the committee re-elected.

At Great Wheal Vor United Mines meeting, to be held on Wednesday, the accounts to be presented show—Black tin sold May, 19641. 6s. 3d.; June, 22601. 2s. 6d.; July, 20261. 14s. 3d.; old iron sold, 13t. 5s. 9d.; old whim sold, 6l. 10s.; one year's rent of Trew tenement to Midsummer, 1863, 15l.; cash balance, 2f.0s. 2d. =6237, 18s. 11d. Mine cost, April, May, and June, 31201. 18s. 6d.; merchants' bills, 11711. 2s. 6d.; dues, 3351. 5s. 11d.; sundry payments, including London expenses, 2401. 5s. 1d.; leaving credit balance (profit), 14151. 6s. 1d. The cash account shows—Cash at the bankers, 10341. 19s. 10d.; bills receivable, 2021; 1.0s. 9d.; petty cash, 6l. 10s. 3d. 30631. 10s.—The ground sunk and driven during the three months ending June was 86 fms. 4 ft. 1 in.

The ground sunk and driven during the three months ending June was 85 fms. 4 ft. I in.

The Railway Carriage Company (Oldbury) have declared an interim dividend at the rate of 10 per cent. per annum, for the half-year ending June 30.

Captain W. O. Young and Captain George Denny, H.E.I.C.S. (of the General Shipowners' Society), have joined the board of Martin's Patent Anchor Company; and Mr. Francis Campin, C.E., has been appointed consulting engineer to the company, under whose superintendence the works are to be constructed.

NEWCASTLE, SEPT. 10.—The market this week has been more active, Tineroft and West Chiverton shares being in good request. Local shares are remarkably quiet, and prices are nominal. Tyne Head shares present no change of any importance. At Nether Hearth the mine is looking better than for some time past. Harwood is looking much as usual, but the December and January furor has abated; the cutting of the cast and west cross vein is expected in a short time, when shares may take a turn. Samples have been sent out for sale of 10 tons of ore.—EDWARD BREWIS.

LEEDS, SEPT. 10.—In mining shares a quiet tone has prevailed during he week, and but little business has been done. There is no material alteration in prices.—John Gledhill and Co.

the week and tiltte business has been done. There is no material alteration in prices.—John Glednill and Co.

Coal Market—On Monday, the fresh arrivals only amounted to 38 ships; the quantity for sale, consequently, was trifling. House coal met with a brisk enquiry, and upon second class an advance of 3d. per ton was realised. Hartley's and manufacturers' firm, at fully previous quotations. Best coal, 17s. 3d. to 18s.; seconds, 15s. 6d. to 16s. 9d.; Hartley's, 15s. to 16s.; manufacturers', 13s. to 15s. per ton.—On Wednesday, there were 40 arrivals. The demand for house coal was brisk, at a further improvement of from 3d. to 6d. per ton. Hartley's were scarce, and advanced 6d. per ton; manufacturers' steady.—On Friday, the large arrival of 100 ships produced a very active business. First class house coal obtained last day's prices; second and third class advanced 3d. per ton; Hartley's and manufacturers' quiet, at late quotations. Hetton Wallsend, 18s. 6d.; South Hetton Wallsend, 18s. 6d.; South Hetton Wallsend, 18s. 6d.; Cosforth Wallsend, 16s. 6d.; Lambton Wallsend, 18s. 6d.; Gosforth Wallsend, 16s. 6d.; Lambert's West Hartley, 16s. 6d.; Vanrield Moor, 13s.; Bute's Tanfield, 13s.: 6 cargoes unsold; 90 ships at sea.

Bristol. Coal Trade.—During August only 295 tons of coal were

Moor, 13s.; Bute's Tanfield, 13s.: 6 cargoes unsold; 90 snips at sea.

Bristol. Coal. Trade.—During August only 295 tons of coal were exported from Bristol oversea, against 766 tons in July, showing a decrease of 471 tons in the shipments. The exports in August were as follows:—Demerara, 190 tons; St. John's, Newfoundland, 105 tons: total 295 tons, compared with the corresponding month last year, when the exports amounted to 916 tons; the above returns also show a decrease of 621 tons. The total exports for this year up to the present time are 529: tons, as against 8589 tons during the corresponding period in 1862.

MINING IN SPAIN.—The following are particulars of mineral production into the United Kingdom from Spain during the two years ended Dec. 31:—

| c. | 31: | 1860. | 1861. | | Increase | | Decrease. | |
|----|-------------------|---------|-------------|------|----------|------|-----------|--|
| | Copper, ore | | | | £ 241 | | - | |
| | " unwrought, &c | 48,194 | 71,125 | **** | 22,931 | **** | - | |
| | Lead | 374,497 | 370,630 | | - | **** | | |
| | Manganese ore | | | | | **** | | |
| | Ore, unenumerated | 178,163 | 4,417 | | | | 173,751 | |
| | Pyrites of iron | - | 114,103 | | 114,103 | **** | | |
| | Quicksilver | | | | | | 114,862 | |

THE TIN STANDARD.—We have not received our usual official report as to the further reduction in the Tin Standard, but we believe we are correct in stating that the fall is on refused 2s., and common 1s., making the standard to the miner as follows:—Refined, 108s., 110s.; Common, 100s., 107s. With reference to our quotation last week relative to the tin trade, as it was formerly carried on by the three old established firms, Messrs. Bolito, Daubuz, and Williams, and the competition which at present exists, there being now five additional tin smelters who are active buyers in the Corolah market, we are informed that it is quito a mistake to suppose that prices have been reduced lower than is necessary to meet the requirements of the market. The price of Straits is now about 11st,, and the buying standard for Corolah ore, 107, showing a difference of 8 only, or equal to about 5t. per too. The margin, indeed, between the miner and the smelter is now less than it has been for many years: a few months since miner and the smelter is now less than it has been for many years; a few months since it was equal to 13f., but is now reduced to \$0.001x. Nor was the standard steadler some years since than it is at present; as many as twenty changes in one year having been known. The lact is, the trade can no longer be controlled as formerly, and the tin miner must expect, with free trade, to have to meet the Dutch and other markets, with their

MINE ACCIDENTS.—At Wheal Grambler, on Saturday, John Bray was cilled by falling from the 48 fm. level, whilst engaged about some timberwork.—At North Rockear, on Sept. 7, James Sims was killed by being blown over a stope under he 94 fm. level, and falling to the 105. His arm was seriously injured, and his bowels were knocked out. He died in two hours after the accident.

| | | | | BI | AC | K | TI | N. | | | | | |
|--------------------|-------|------|------|--------|------|-----|-------|------|--------|------|-------|----------|---------|
| Part of the second | | 84 | id o | n the | 27th | an | d 28t | h A | ugust. | | | | |
| Mines. 7 | ons | | | | | | | | Amo | | | Purch | RESTN. |
| Par Consols | 37 | 9] | 22 | | 68 | 5 | 0 | | 2557 | 9 | 8- | - | |
| 86 | id or | the | 191 | h and | 27th | A | ngust | , an | 1 24 8 | epte | mber. | | |
| West Fowey Cons. | 34 | 4 5 | 23 | | 68 | 10 | 0 . | | 2345 | 2 | 2- | - | |
| ditto | 2 | 3 1 | 1 2 | | 57 | . 0 | 0 . | | 123 | 16 | 5 | | |
| | | | 80 | ald on | the | 1st | Septe | emb | er. | | | | |
| West Beam | 3 1 | 16 1 | 3 25 | | 70 | 0 | 0 . | | 269 | 8 | 1I | larvey | & Co. |
| | | | | ad on | | | | | r. | | | | |
| Prosper Utd | 9 1 | 18 (| 3 | | 67 | 10 | 0 . | | 668 | 6 | 0-E | lolitho | & Sons. |
| ditto | 11 | 14 | 23 | **** | 48 | .0 | 0 . | | 82 | 2 | 0- | ditto | |
| | | 1 | | ld on | | | | | er. | | | | |
| East Wh. Lovell | 4 1 | 15 (| 10 | | 69 | 10 | 0 . | | 330 | 8 | 8-7 | roriffe. | |
| ditto | | | | | | | | | 88 | 10 | 4- | ditto | |
| Garlidna United | 7 1 | 11 | 0 19 | | 68 | - 5 | 0 . | | 515 | 17 | 3-I | 31580e. | |
| ditto | | | | | | | | | | 4 | 3- | ditto | |

| | LI | SJ. | D O | RE | S. | | | |
|-----------------|--|----------|-----------|-------|-----|------|------|------------------------|
| | Sold o | m i | the 15th | h Au | gue | t. | | |
| Mines. | Te | 100 | . 1 | Price | Der | tor | 5. | Purchasers- |
| Newtownards | *************** | 25 | | £12 | 7 | 0 | | Mining Co. of Ireland. |
| ditto | *************************************** | 25 | | 12 | | 0 | | Sims, Willyams, & Co. |
| | Sold on | i ti | be 4th 8 | Septe | mbe | m. | | |
| Minera Mining | Company1 | 10 | ***** | 13 | 9 | 0 | | Sims, Willyams, & Co. |
| ditto | | 10 | | | 4 | 0 | | Walker, Parker, & Co. |
| ditto | | 10 | | 13 | 4 | 0 | | disto |
| | | | | | 6 | 0 | | Sims, Willyams, & Co. |
| | | | | | 4 | 0 | | Walker, Parker, & Co. |
| | | | 4 | | 10 | ŏ | | ditto |
| | ****************** | | 7 | | 10 | o | | Newton, Keates, & Co. |
| | *************************************** | | 2 | | 10 | | | Panther Co. |
| | Sold on | | | | | | **** | A MALLINES CO. |
| Wheal Mary A | nn | 46 | to and G | 95 | 15 | | | Stock & Co. |
| ditto | **************** | 90 | | 13 | | | | J. & J. Williams. |
| | Sold on | | | | | | **** | J. & J. WILLIAMS. |
| Fordala | | 00 | an acre G | chra | 10 | | | Stock & Co. |
| Wheal Ludeott | and Wrey Consols | 50 | ***** | 22 | 19 | 0 | | J. & J. Williams. |
| THE RESIDENCE | Sold on | | | | | | **** | J. & J. Williams. |
| Management Adm | | un on | e rocu | Septe | | | | |
| | | | | | 12 | 0 | | A. Eyton. |
| | ***************** | | | | | - 19 | | Newton, Keates, & Co. |
| | | | | | 12 | 6 | | |
| | • | | | | | 6 | | ditto |
| | | | | | 7 | 0 | | Newton, Keates, & Co. |
| | | 00 | | | - 5 | 6 | | Walker, Parker, & Co. |
| | ***************** | 40 | ***** | | 5 | 0 | | Newton, Kentes, & Co. |
| | | | | | 8 | 6 | | Walker, Parker, & Co. |
| | *************************************** | | | | | 0 | | A. Eyton. |
| | ***************** | | | | - 6 | 0 | | ditto |
| | *************** | 15 | | | 9 | 6 | | Walker, Parker, & Co. |
| | *************************************** | 12 | ***** | . 13 | 19 | - 6 | | A. Eyton. |
| | ************************* | 45 | | 13 | 13 | 6 | | Walker, Parker, & Co. |
| | | | | 12 | 18 | 0 | | Newton, Kestes, & Co. |
| Dyliffe | | 36 | | 13 | 4 | 0 | | A. Eyton. |
| Dyfngwm | | 25 | ***** | 12 | 17 | 0 | | Newton, Keates, & Co. |
| Llangynog Unit | ed be | 58 | | 12 | 12 | 6 | | ditto |
| Lianerchyraur. | *************************************** | 15 | | 13 | 5 | 0 | | ditto |
| Isle of Man Mir | ing Company | 90 | | 14 | | 6 | | J. & J. Williams. |
| | The state of the s | | | | | - | | or as or minimum. |
| | | | | | | | | |

| | | | Sold o | n the 4t | h Septer | mber | | |
|-------|--------|---------|----------|----------|----------|------|------|----------------|
| Mine | | | | Tons. | Price | per | ton. | Purchasers. |
| nera | Mining | Company | ******* | . 30 | £3 | 1 | 6 | H. Southern. |
| litto | ***** | ******* | | . 48 | 3 | 14 | 6 | A. Courage. |
| litto | | | | . 19 | 2 | 0 | 6 | W. Kenrick. |
| litto | ***** | | ******** | . 17 | 4 | 1 | 0 | Vivian & Sons. |

BLENDE.

COPPER ORES.

| Mines. | Tons | . 1 | roduce. | P | rice | | Mines. Tons. Produce. Price | i. |
|-----------|------|-----|---------|------|------|----|-----------------------------|----|
| Cobre | 108 | | 12% | £10 | 6 | 0 | Berehaven 83 1114 £8 15 | 6 |
| ditto | 102 | | 13 | . 10 | 9 | 0 | | 0 |
| ditto | 62 | | 23% | . 19 | 5 | 0 | Yudanamutana46 3014 24 6 | 0 |
| ditto | 57 | | 23% | . 18 | 17 | 0 | ditto 44 3254 25 11 | |
| ditto | | | | | | 0 | ditto 18 3312 26 4 | 0 |
| ditto | | | | | | 0 | Laxey148 6% 4 9 | 6 |
| ditto | | | | | | 0 | French Siag., 97 214 0 19 | 6 |
| ditto | | | | | | | Cape Copper 15 364 30 10 | 0 |
| ditto | | | | | | | ditto 3 2614 21 0 | 0 |
| Berehaven | 126 | | 956 | . 8 | 1 | 0 | Bathurst 6 2414 20 17 | 0 |
| ditto | 76 | | 10 | . 8 | 2 | 0 | Knockmahon, 80 13% 10 14 | |
| ditto | 65 | | 1034 | . 8 | 3 | 0 | ditto 43 1336 10 13 | 0 |
| ditto | 63 | | 1014 | . 8 | 3 | 0 | French Slag. 8 114 7 12 | 0 |
| | | | | TO | TA | LE | RODUCE. | |
| Clohen | | 70 | 1 | 1451 | 0 | | Cana Conner 19 6590 10 | |

| | | TO | TA | LF | RODUCE. | | | | |
|--------------|------|-----------|------|------|---------------------------|-----|----------|------|----|
| Cobre | 761 | £9451 | - 9 | 6 | Cape Copper | 18 | £520 | 10 | 1 |
| Herenaven | 5537 | 4474 | - 13 | 65 1 | Hathurst | - 6 | 125 | - 34 | ٠, |
| Yudanamutana | 108 | 2713 | 12 | 0 | Knockmahon | 123 | 1313 | 19 | - |
| Laxey | 148 | 662 | 6 | 0 | Knockmahon French Slag | 8 | 60 | 16 | - |
| French Slag | 97 | 94 | 11 | 6 | | | | | |

| COMPANIES BY WHOM THE ORES | WER | E PURCI | IASEI |). | | |
|--------------------------------|-------|---------|--------|----|---|--|
| | Tons. | | Amo | | | |
| Copper Miners Company | 1395 | | £1376 | 0 | 6 | |
| Freeman and Co | 107 | ******* | 1627 | 13 | 0 | |
| P. Grenfell and Sons | 244 | | 2637 | 1 | 0 | |
| Sims, Willyams, Nevill, and Co | | ******* | 1678 | 15 | 6 | |
| Vivian and Sons | 404 | | 3789 | 10 | 0 | |
| Williams, Foster, and Co | 2965 | £ | 2842 | 7 | 3 | |
| Charles Lambert | | ******* | 2361 | 9 | 0 | |
| Jennings and Co | 33 | | 888 | 10 | 6 | |
| Neath Copper Company | | ******* | 2205 | 0 | 0 | |
| Total | 1806 | i | 19,416 | 6 | 6 | |

Copper Ores for sale at Swansea, Sept. 22.—Cobre 94, 92, 66, 106, 105, 104, 108, 96, 80 70, 11, 10, 10, 67, 43—Berchaven 102, 86, 81, 67, 76, 48, 119—Knockmahon 85, 47, 107 99—Kammantoo Regulus 14, 12—Connorreo Cora 42—Victoria Slag 5—Cape Copper 431, 24, 23, 17, 8—Ookip 50, 48, 24, 24, 6—Springbok 30—Koperberg 20—Odd bags 9—Steppings 2—Total, 2421 cos.

| pingo | rotal, 2421 tons. | | AVERAGE | -0 | | | | | | |
|--------------------|-------------------|-------|------------|-----|------|----|-----------|------------|-----|----|
| | | | | | | | | - | _ | |
| | | Produ | ce. | P | rice | | | Stan | dar | a. |
| British Foreign | | · 103 | * | £ 7 | 19 | 6 | | £101 95 | 7 | 0 |
| | Sale | . 13 | 5-16 | £10 | | | | £97 | 9 | 6 |
| | Totals-British, | 808; | Foreign, 9 | 98= | 1806 | to | ns (21 cw | ts.) | | |

COPPER ORES. and sold at Tabb's Hotel, Redruth, Sept. 10.

| Mines. | Tons. | Price. | 1 | Mines. | Tons. | Price | |
|--------------|--------|--------|---|---------------------|-------|--------|-----|
| West Basset | 78 | £7 19 | 6 | East Rosewarne | | £2 8 | |
| ditto | 77 | 6 19 | 6 | Wheal Uny | 53 | . 6 9 | - 6 |
| ditto | 76 | 3 5 | 6 | ditto | 52 | | |
| ditto | 64 | 3 19 | 6 | Copper Hill | | . 1 13 | 0 |
| ditto | 52 | 6 18 | 6 | ditto | 26 | . 6 4 | - |
| ditto | 43 | 7 1 | 6 | Wheal Anna | 56 | . 5 2 | 6 |
| ditto | 86 | 7 10 | 6 | ditto | 15 | . 3 7 | 6 |
| East Carn B | rea 58 | 3 9 | 0 | Tolvadden | 30 | . 4 16 | - 6 |
| ditto | 53 | | 6 | ditto | 26 | . 3 0 | |
| ditto | 47 | | 0 | ditto | 8 | . 8 17 | |
| ditto | 46 | | 6 | North Basset | | . 8 17 | -0 |
| ditto . | 45 | 4 10 | 0 | ditto | 11 | . 4 5 | 6 |
| ditto | 28 | | 0 | | 8 | . 0 15 | - |
| ditto | 18 | | 6 | Gurlyn | | | - 6 |
| ditto | 14 | | 0 | Wheal Buller | | | - |
| | ery 80 | | 6 | | 5 | | - |
| ditto | 57 | | 6 | North Frances | | | i |
| ditto | 55 | | 0 | | 13 | | ì |
| ditto | 48 | | 6 | Nangiles | | | 0 |
| Par Consols | 66 | | 4 | West Alfred Consols | | | 6 |
| ditto | 64 | | 6 | West Treveliyan | | | - 7 |
| ditto | 63 | | 0 | Wheal Henrietta | | | 6 |
| | ted 73 | | 6 | South Carn Brea | | | è |
| | | | 0 | Wheal Agar | | | 0 |
| dirto | 47 | | 0 | Boiling Well | | | 0 |
| ditto | 46 | | 6 | | | | - |
| ditto | 25 | | 0 | Crowan Consols | | | 0 |
| | rne 36 | | ŏ | | 11 | | i |
| ditto | 28 | | | Wheal Union | | | |
| ditto | | | 0 | West Par Consols | | | ě |
| ditto | 25 | | 0 | Pembroke | **** | | |
| | | | | RODUCE. | | £86 16 | |
| | 426 £1 | | 0 | North Frances | 31 | | |
| East Carn B | | | 6 | Nangiles | 30 | 157 10 | |
| Wheat Marg | | | 6 | West Alfred | 26 | 37 1 | 0 |
| Par Consols | | | 0 | West Trevelyan | 20 | 171 10 | 0 |
| Wheal Prosp | | | 0 | Wh. Emily Henrit | 20 | 130 0 | 0 |
| East Rosews | | | 0 | South Carn Brae | 16 | 43 12 | - |
| Wheal Uny | | | 6 | Wheal Agar | 15 | 78 15 | .0 |
| Copper Hill | | | 0 | Boiling Well | 15 | 24 0 | 0 |
| Wheal Ann | | | 6 | Caradon Consols | 13 | 15 3 | - |
| Tolvadden | | | 0 | Wheal Union | 11 | 44 7 | 0 |
| North Basset | | | 6 | West Par Consols | 4 | 59 12 | 0 |
| Guriyn | 52 | 252 4 | 0 | Pembroke | 2 | 3 9 | 0 |
| | | | | | | | |

| Wheal Buller 48 204 1 0 |
|---|
| Average Standard£115 8 0 Average Produce |
| Quantity of Ore 2177 tons Quantity of Fine Copper, 142 tons 8 cwis. |
| LAST SALE.—Average Standard £115 14 0.—Average Produce6% Standard of corresponding sale last month, £118 11 0.—Produce, 6%. |

| COMPANIES BY WHOM THE ORES | Tons. | | | |
|----------------------------|---------|---------|----|---|
| Vivian and Sons | . 30914 | £1764 | 9 | 6 |
| Freeman and Co | | | 6 | 6 |
| Grenfell and Sons | | | 1 | 0 |
| Sims, Willyams, and Co. | | | 17 | 9 |
| Williams, Foster, and Co | . 316% | . 1449 | 2 | 6 |
| Mason and Elkington | | | 19 | 6 |
| Copper Miners' Company | | | 7 | 0 |
| Charles Lambert | . 31914 | 1046 | 7 | 9 |
| Sweetland, Tuttle, and Co | | | 6 | 0 |
| - Control | 9177 | £10.444 | 17 | - |

per ores for sale on Thursday next, at the Royal Hotel, Truro,—Mines and Pa Devon Great Consols 2404—East Caradon 503—Phomix 461—New Wheal Martl Hingston Down 410—Marke Valiey 402—Wheal Edward 222—East Russill 216-d United 266—Holmbush 160—Wheal Friendship 153—Kelly Bray 151—Whea 133—Lady Bertha 72—Bamptyldo 47—New East Russell 27—Fursdon 26.— 1, 6920 tons.

cela.—South Caradon 423—Great Wheat Busy 430—West Caradon 462—North Tr. 383—Clifford Amajamated 389—North Downs 170 Wheat Rose 163—Cradice 133—Wheat Polmear 112—St. Day United 70—Boscawen 35—South Crimis 18 Burns 3.—Potal, 2747 tons.

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In Chancery, Lancashire.

CHIELE'S PATENTS—SCHUNCK v. SCHIELE,—
Notice is hereby given, that by a deed dated July 14, 1863, executed pursuant to
A control of this Courr, and duly registered at the Patent Office, London, C. SCHIELE
SOLUTELY ASSIGNED to MARTIN SCHUNCK, Eq., the PATENTS, com-

prising the following inventions:
SCHIELE'S TURBINE WATER WHEELS,
PLATT AND SCHIELE'S SILENT FANS, including AIR PUMPS or GAS EXHAUSTERS.
SCHIELE'S BLAST ENGINES.
SCHIELE'S GOVERNORS for STEAM ENGINES and WATER WHEELS.
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SCHIELE'S HYDRAULIC TRANSMISSION of POWER.

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FOOTSTEPS OF SHAFTS, to COCKS, VALVES, &c.

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Mr. SCHIELE is not authorised, either by himself, or his partners or agents, to receive my orders, or transact any business, relating to the above.

All applications for terms of license, &c., of inventions not already exclusively Hensed, to be made to Wilstam Happone, Esq., civil engineer, John Dalton-street, anchester; or to the North Moon Founday Company, Oldham, who are authorised or to the North Moor Founday Confant, Unnam, who are authorise thaif of Mr. Schusek, for the same. LEWIS, DARBISHIRE, AND ASHWORTH, 21, Brown-street, 1863. Manchester, Solicitors for Martin Schunck, Esq.

THE NORTH MOOR FOUNDRY COMPANY, OLDHAM,
SOLE LICENSEES and MANUFACTURERS OF
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The NORTH MOOR FOUNDRY COMPANY, having found that some of their customers have had an impression that their machines could be obtained from other parties than themselves, beg to inform the public that they POSSESS the SOLE and EXCLUSIVE RIGHT to the ABOVE PATENTED INVENTIONS, and that they have not authorised any other parties to manufacture and sell the same.—For illustrated ot authorised any other parties to manufacture and sell the same.

Mr. SCHIELE has NO INTEREST whatever in the ABOVE INVENTIONS, and NOT AUTHORISED to RECEIVE ORDERS or TRANSACT ANY BUSINESS

ESSRS, C. SCHIELE AND CO. beg to intimate that the PATENTS ASSIGNED by Mr. SCHIELE to Mr. SCHUNCK ONLY COM-BE Mr. SCHIELE'S OLD PATENTS, taken out prior to 1860, and DO NOT

PRISE MR. SCHIELE'S OLD PATENTS, taken out prior to 1860, and DO NOT COMPRISE—
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ANTI-FRICTION CURVE tO UPRIGHT SHAFTS, &c., have LONG SINCE EXPIRED, and Messrs. C. SCHIELE'S ATENTS for CUBRICATION, HYDRO EXTRACTORS, HYDRAULIC WEIGHING MACHINES, and the APPLICATION of the ANTI-FRICTION CURVE to UPRIGHT SHAFTS, &c., have LONG SINCE EXPIRED, and Messrs. C. SCHIELE'S and Co., as well as the public in general, have full liberty to make use of these inventions.

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THE CARADON AND LISKEARD DISTRICTS.

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MR. GEORGE SHEPHERD, CIVIL, MINING, AND
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Letters addressed 26, Throgmorton-street, London, E.C.

JOINT-STOCK COMPANIES.—ADVICE and (if requestional Assistance Given to any been side undertakent. LEE STEVENS 36, CANNON STEET, E.C.

Notices to Correspondents.

Much inconvenience having arisen in consequence of several of the Numbers during to past year being out of print, we recommend that the Journal should be regularly ted on receipt: it then forms an accumulating useful work of reference.

THE HARTLEY FUND.—Can any of your readers inform me if South Wales is to receive a share of the sarplus Hartley Fund; and if so, what is the amount allotted to this important district?—HERRY RUSSELL EVANS; Newport, Mon., Sopt. 10.

important district?—HERRY HUSSELL EVANS; Neigori, Mon., Sept. 10.
Lippord Amalgamated.—It is not generally known that a second serious rul in this mineabout the time the last circular was printing, or being sent off. run in this deep mine is a serious matter, as the ground is so loose that fourth may occur. Is our captain so much engaged that he cannot send an report to the Journal, that we may have reliable information of our actual To show the necessity of this, I need only allude to the rumours selfant in t that, though the next dividend may be paid, as they have the ore at grass, we must look out for costs.—SHARKHOLDER.

MRRE-DEALING.—Will some of your readers kindly give me their advice on the following grievance? In May last I sold, by a mining auctioneer, some shares in a limited liability company to a sharebroker, and to the present moment he has not registered the transfer, but holds the certificates. How can I compel him to register, for I am still liable; but should the mine take a good turn, of course, he will soon register. Can you not use your powerful pen, and expose some of the dishonourable acts of mining speculators?—B. W.: Birmingham, Sept. 9.

IORTH MINERA.—I should feel obliged if some correspondent would inform me upor what conditions the preference shares of the North Minera Lead Mine were issued, and how much per cent. they would be entitled to out of the profits of the mine before the old shares would receive any profit, if there were any ?—C.

old shares would receive any profit, it there were any ?—C.

OUTH FRANCES, AND WEST BASSET.—In reply to letters which have appeared in the last two impressions of the Journal, signed "One Interested "and "Another Interested," respecting the lawsuit now pending between the South Wheal Frances an West Basset, permit me to say that it does not advance the prospects of either mir by listening to the statements of parties having an interest in one or the other; by in order to settle this iong-standing and much-to-be-regretted dispute, and put a ste to all further law expenses, I would propose a meeting of shereholders in both under takings, and let their decision be binding.—J. E. Caaner: Homerton, Sept. 10.

takings, and let their decision be binding.—J. E. CRANET: Homerion, Sept. 10.

OLD WHEAL NEFUNE.—In reply to your correspondent, "A Shareholder," I may inform
him that a report appears in the Journal every fortnight of the progress made at the
mine. Something must be doing when our cost-sheets from the commencement have
acceeded 3000. monthly. Only one of the directors have resigned, and that many month
ago. Anonymous correspondents should be particular in writing to assert nothing
but facts.—J. Harmis.

ago. Anonymous correspondents should be particular in writing to assert nothing but facts.—J. Harms.

Swanea Copper Sales—J. T. Snow (Boston, U.S.)—The figures given on August 15 were incorrect, owing to the contents of fine copper in the ore being incorrectly stated, and the calculations made therefrom. The particulars were:—Date. Tons. Standard. Produce. Price per ton. Fine cop. Ore cop. July 28 ... 2281 ... £101 11 0 ... 1434 ... £12 18 6 ... 336 0 ... £35 19 Aug. 11 ... 2075 ... 101 13 6 ... 13 11-16. 11 13 6 ... 284 0 ... 85 12 Whether the variation in the position of the market be estimated by comparing the variation in the price of the cooper in the ore, or by the variation in the price of the cooper in the ore, or by the variation in the price oper unit, allowance would have to be made for the difference of produce, because the poorer the ore the larger number of tons the smelter has to smelt to obtain a ton of copper. Thus, when the produce is 20 per cent. 1 ton of copper is contained in 20 tons of ore, whilst when the produce is 20 per cent. 1 ton of copper is contained in 5 tons of ore. Then, as the cost of smelting depends upon the number of tons of ore smelted, it is obvious that to obtain a ton of copper the smelter's outsy will be four times as great in treating 5 per cent. ore as in treating 20 per cent. ore. Practically, from 9 to 13 produce is usually considered the best to smelt, other things being equal; so that the position of the market was about the same at the two sales in question. Mr. Snow correctly calculates the price per unit as 17-19 shillings on July 21, and 17-06 on Aug. 11, but as the produce was 14% in the former case, and 13 11-16 in the latter, the price which would have been paid for a given ore upon the latter date would have been rather higher than otherwise, as compared with the preceding sale. The amount of money paid for the whole of the ore purchased, divided by the number of tons of copper contained in such ore, will give the average price paid for the copper in the o

John Calvert, C.E., has left England, on a tour of inspection in the mining distri-Sweden and Norway. On his return he will have to proceed to Portugal and Spai HARE DEALING.—We never interfere in the sale or purchase of shares: noither recommend any particular mine for investment or speculation, or broker the whom business should be transacted. The addresses of most of the latter appour advertising columns.

THE MINING JOURNAL

Bailway and Commercial Gazette.

LONDON, SEPTEMBER 12, 1863.

Desirous of giving a place to every discovery in constructive science, we readily devote a column to Mr. W. W. WARREN's theory of an "Impregnable and Unsinkable Floating Casemated Battery, Submarine Gun and Armour-Plating adapted for Stationary Batteries, and for convoying Troopships," &c. The utility, practically proved, of the proposed system would be, to all the intents and purposes indicated, of great national importance; and even now, if it be only considered as merely the initiative of an improved mode of harbour defence, it is well worthy of consideration. Not being of that, fortunately, small section of the community who would confidingly trust to treaties for restricting aggression rather than to that defensive attitude a commercial country, the protectress of vast and vital interests, should assume, and unremittingly preserve, we hold that every encouragement should be given to the exertions of those who expend thought, time, and money in perfecting such appliances as the conservative providence of the age has wisely impressed into its service. The insular position of the United Kingdom offers a wide seaboard to an invading foe; and while the indomitable spirit within the country may rightly be estimated as rendering it impregnable, common sense suggests that the aid from without—that is to say, our floating defences—should be augmented and perfected by every means which genius and energy can create.

In these inventive times it would be folly to assert any system of construction infallible, and Mr. Warren must excuse us when we hesitate to admit that perfection which he attributes to his project; nevertheless, it

In these inventive times it would be folly to assert any system of construction infallible, and Mr. Warren must excuse us when we hesitate to admit that perfection which he attributes to his project; nevertheless, it bears with it an effective ingenuity it would be an injustice to him, and to the public, not to recognise fully and frankly. In his circular, Mr. Warren states that his invention has been for some months before the constituted authorities, and he points out that "by experiments carried out in Aug., 1862, the possibility of perforating under water, and sinking such vessels as the Warrior class, has been definitely proved."

No assertion to the contrary was ever made. Such floating leviathans, like those natural to the unfathomed depths, are, no doubt, assailable and vulnerable, but it will be granted that the force of assault brought against them must be powerful in the extreme to effect a conquest, while it is to be supposed no person will be found possessed of sufficient hardihood to deny that the attacking power has, in like manner, its weak points, and might in the affray receive a "Roland for its Oliver." To fight a hard battle without a casualty, or enter the list without a risk, is not to be thought of; therefore, the suggestion to inventors is not unwise or unnecessary, that in their ardour to wield the aggressive weapon they should not so frequently forget to render as perfect as possible its defensive uses. These remarks are not, however, more applicable to the invention under notice than to many others that have been during the last few years prominently put forward. The sin of omission referred to appears an ordinary weakness to which the speculative assailants of "iron-olads" are subject, and it is but mentioned on the present occasion as a hint for the future. Regarding, then, the invention of Mr. Warnen even as a mere nucleus for the utilisation of a highly valuable principle in marine-battery building, it will be no unprofitable expenditure of time to look over his specification. The

The diagrams and coloured sections which accompany it do him great credit, being plainly and clearly defined, and satisfactorily descriptive of the system be would establish.

In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the floating battery "afloat," the formidable and manner. In the delineation of the system the would establish. In the delineation of the repellant and opposing composing composi

engineers, as well as to the general body of the profession:—
"I prefer," writes Mr. Warren, "constructing the centre portion of the vessel of rolled wrought-iron double-flanged vertical ribs, from 12 to 18 in, wide, and from 2 to 4 in, thick, firmly rivetted and bolted together, or of angle or T iron, solidity and stiffness being the great object, on which are placed the various layers of malleable metals, as shown on drawing, taking care to stop all chemical or galvanic action, by means of bituminous

composition, mixed with hair; and were it not for the cost I would prefer using the finest copper-plating only over the iron, so as to act on the principle of a gradual tenacity of resistance, thereby easing and stopping the momentum, and distributing the shock, and thus prepare the iron-plating to finally resist, without splitting or destroying the plate; or the roof-deck and sides of centre position of battery can be protected with oak, or other wood, compressed in short lengths, and confined, the cross-grain of wood being opposed to the action of fire." composition, mixed with hair; and were it not for the cost I would prefe

wood being opposed to the action of fire."

"The fore-and-aft and other portions of the battery, not requiring armour-plating, to be constructed with wrought-iron ribs, with an outer skin only, and to be filled in with hexangular or honeycomb compartments of the maximum size of shot, made in short lengths, and firmly rivetted and bolted together, so that in case of water entering it is confused to the track of the bail, after which it can be easily stopped, and by an arrangement of valves can be pamped out. To wooden ships, if armour-plated at all, would apply the plating inside thereof, thereby making the external wood act as a buffer or padding. The porthole for discharging the submarine gun must be provided with water-tight metal flap, instantly closing after the racoi of gun, the barrel of gen acting in a stuffing-box, with a water-tight box adjoining for adjusting cap to muzzle. The porthole to be provided with a alide valve, as an extra procaution. The cap can be made of any reasonable length, so as to displace a greater volume of water, and, if necessary, a telescope tube cau be adjusted to porthole and clongated by a rack-and-pinion movement, or an ordinary muzzle-loading gun can be used, by simply applying a waterproof fiscible hose, of samflected length to allow of the recoil of gun, and having moveable collars statached to muzzle and porthole. The hexangular cellular system is not only capable of displacing and carrying any weight of armour-plating, but is admirably adapted for the reconstruction of existing wooden ships, thereby making them seaworthy and unainkable at a comparatively small expense, without the necessity of armour-plating at all, simply by placing the comparatively small expense, without the necessity of armour-plating at all, simply by placing the comparatively small expense, without the necessity of armour-plating at all, simply by placing the comparatively small expense, without the necessity of armour-plating at all, simply by placing the activates to lower deet; and is likewise

simply by placing the compartments a few feet above and below wind-and-water-line, and plating the hatchways to lower deek; and is likewise armirably adapted for the construction of life-boats, floating docks, &c., on account of it reducing the maximum amount of external injury to the minimum amount of internal damage."

Such is an embodiment of the details specified, and however there reave be room for argument with reference to the practical applicability of portion of them, the project advanced is invested with somewhat of comparities have adopted the cellular and certain other elements of Mr. Warren's plan; and, if they have been found worthy of trial by our spirited and enterprising neighbours, those who direct the naval destinies of this country will not find it foreign to their public duty to similarly test them. Were the whole system adopted by the Lords Commissioners of the Admirally to-morrow, its originator, in our humble opinion, would have but a vague chance, if any, of remuneration. However, he is patriotically credulous enough to believe otherwise, for he states he has given up the invention to their lordships, leaving it in their hands to reward in the event of his principles being adopted. For such a liberal boon Mr. Warren has received from the Admiralty "express permission to erect a target at Shoeburyness—its cost 5000£—on the compressed wood cross-grain principle." Such a favour is surely on a par with the Rajah's gift of the white elephant.

Of one fact we have undoubted evidence, that the Americans are turning their carnest attention to the building of ships on the battery principle, having had practical experience of the effectiveness of those of the turret construction in the conflict which occurred between the Federal urret ship Wechauken, and the Confederate vessel Allanta, an ordinary iron-clad, but three times as large as the Wechauken, and five shots, from one turret vessel to make her haul down her flag, and yield herself captive. It must, however, be remembered, that the weight o

THE FUTURE OF THE IRON TRADE.

A most bountiful harvest claims our gratitude. The reports from all arts of the United Kingdom, and from most parts of Europe and America, are of the most cheering character. "One of the finest growths of grain on record," is the description given by one agricultural reporter. "The finest harvest in the memory of this generation," is the judgment pronounced by another. Everywhere the same tone of unhesitating confidence and jubilancy is to be heard. It may be confidently assumed that at least 10,000,000\(leftilde{\chi}\) sterling have been added to the wealth of the nation from this source alone. This, of itself, will have a most beneficial tendency upon general trade and commerce. The iron trade already is being affected in a very marked manner from this cause, whilst bars and rails have advanced 10s. to 20s.; the elevation in the price of pig-iron has recently reached only 2s. 6d. per ton. Upwards of 60,000 tons of pig-iron were purchased this week in the Glasgow market, at from 55s. 9d. to 57s. 6d. per ton, cash; 56s. to 57s. 9d., one month; and 56s. 6d. to 58s. 6d., open three months. The development of the railway system over the world, more particularly in Spain, Austria, Russia, India, and Australia, continues to make satisfactory progress, and will lead to an immense absorption of iron. During the next ten years, it has been stated by the highest authority that the gold mines of the world will yield at least 200,000,000\(lambda\) sterling; and the effect of this in the enhancement of prices it is impossible duly to estimate. For all these reasons we regard that the prospects of the iron trade have seldom been so bright, encouraging, and hopeful as at the present time. grain on record," is the description given by one agricultural reporter.

DIMENSIONS OF THE EARTH'S COAL FIELDS.

DIMENSIONS OF THE EARTH'S COAL FIELDS.

We have it, on the authority of competent surveyors, that the great coal field of South Wales, the largest and deepest in Europe, covers a surface of not less than 1000 square miles, and has a maximum thickness of from 7000 to 12,000 feet in its coal measures. In this prodigious "book of time" there are, it has been computed, not less than 50 beds of coal, from 6 inches to 6 feet in diameter, and 25 of these are said to be each at least 2 feet thick. The smaller Forest of Dean coal basin contains, according to the "Memoirs of the Geological Survey," 31 coal beds in a thickness of coal measures of 2400 feet. From the same source (the Salvey) we learn that the North Staffordshire coal measures have an a graying at the depth of about 5000 feet; while those of the Newcastle district are believed to be at least 2000 feet thick, and to embrace a total thickness of coal equivalent to 60 feet. In the deepest portions of the extensive coal basin of Scotland, the upper productive coal measures of Mid-Lothian have been found by the Survey to possess a thickness of not less than 1800 feet. The number of the seams of coal wrought in the Lancashire field is in all 18. field is in all 18.

Turning to other counties, the depths or thicknesses of the coal measures, and the numbers of the coal beds, will be found to be on an equally grand scale. Looking, first, to the western side of the Atlantic, North America displays commensurately with the broadth of her physical features generally, several enormous coal regions, three at least of which are tures generally, several enormous coal regions, three at least of which are the largest known upon the globe. One of these, the Appalachian basin has a length of 875 and a maximum breadth of 180 miles, with an area in square miles of 55,500. Where deepest its coal beds have an aggregate thickness of 40 ft. A second, the coal field of Illinois, Indiana, and Kentucky, has length 370, maximum breadth 200, and area 51,100 miles. This basin has 15 or 16 good coal seams, with a maximum thickness of 50 ft. And the third and largest, but least opened, shows length 550 breadth 200, and superficial area 73,913 miles. In the anthracite basins of Pennsylvania the thickness of coal measures amounts to 3000 ft., while that of the workable coal is not less than 120 ft. The aggregate area of the five chief coal fields of the American continent amount, by a careful estimate, based upon the latest surveys and the best geological maps, to rather more than 200,000 square miles; a surface greater by about twenty times than the sum of all the coal fields of Europe, or, indeed, of the whole Eastern world.

The British carboniferous basins may be estimated to embrace some 5400 square miles of coal; the French a little less than 1000; and the Belgian about 510. Rhenish Prussia has 960; Westphalia, 380; the Bohemian field, some 400; that of Saxony only 30; that of Spain probably 200; and that of all Russia scarcely 100 square miles. Comparing the coal areas with the total surfaces of the respective coal-producing countries,

le

the generation of steam for the propulsion of machinery.—Prof. Rogers.

Inspection of Coal Mines—The North and East Lancashire District.—Mr. Joseph Dickinson reports that the Acts and special rules have continued to work satisfactorily; the accidents and loss of life are at a low point, and the district has been free from any great accident. The explosions of fire-damp, although fewer than last year, and unattended with large loss of life, have continued to numerous to be creditable to the management. Accidents take place which might be prevented if some person of experience were appointed to manage the collieries. Mr. Dickinson has continued to itsue circulars, pointing out the principal causes which had led to accidents, to firm in the district and to underlookers of collieries, alfong with a notice requiring a cover to be placed overhead, scopt under collieries, alfong with a notice requiring a cover to the placed overhead, scopt under collieries, alfong with a notice requiring a cover to of the sharfs. The commendation has produced good effect. The fences, which were previously nucleus, have been considerably increased in number, and during the past year not a single-collier has happened by any person falling into a sharf, which the fence is an unusual circumstance, there having been only one for many years praviously. The first and second bolier acts of the principal Act (23 and 24 Victoria, cap. 18), which requires the mileser's wages to be paid in money at an office which must be appointed for that purpose in the special rules, a decision has been given at the Manchester County Court, before Ar. A. Milled, in the case of Rudd s. Stanley. The decision seems to the effect that, although full centrol is given to the miner to obtain his wages in money at the specified pay-office, it does not enable him to recover as unpaid wages a sum which he has duly authorised to be paid in money at an office which must be appointed for that purpose in the special rules, a decision has been given at the Manchester County

lieries, where the interested parties compiained, the neglect appeared inexcusable, and proceedings were taken for the penalities. The miners have a ready means of having danger removed. They should send intimation of the danger to the inspector, otherwise there is very little chance of its coming under his notice before an accident happens.

Coal Minn of New South Wales.—The formal opening of the Bulli Coal Mine was celebrated by a sumptuous banquet, which was attended by about 200 invited guests from Sydney and the leading gentry of the district of Illuwarra. The steamship **Hunter** had been chartered to coavey the party from Sydney, and amongst those who accepted invitations were the Hon. W. M. Arnold, M.L.A., Minister for Public Works; members of both Houses of Parliament, directors of various steam navigation, gas, and marine issurance companies, principals of fact establishment of steam communication steams companies, principals of fact establishment of ateam communication and the steam of the

RAILWAY ROLLING STOCK.—The gradual increase in the rolling stock of the various railway companies is very striking. Thus the Bristol and Exeter, which had, at the close of 1861, 60 locomotives and 1173 carriages of various kinds, had advanced at the close of 1862 to 64 locomotives and 1292 carriages and trucks; the Great Eastern progressed from 328 engines and 8894 other carriages and trucks in 1861, to 380 engines and 8850 other carriages and trucks in 1862; the Great Korthern, from 338 engines and 10,122 carriages and trucks in 1862; the Great Western, from 443 engines and 10,424 carriages and trucks in 1861, to 504 engines and 11,491 carriages and trucks in 1862; the Lancashire and Yorkshire, from 353 engines and 11,491 carriages and trucks in 1861, to 370 engines and 12,535 carriages and trucks in 1862; the London and North-Western, from 972 engines and 21,233 carriages and trucks in 1862; the London and South-Western, from 177 engines and 4816 carriages and trucks in 1862; the London and South-Western, from 177 engines and 4816 carriages and trucks in 1862; the London and South-Western, from 177 engines and 4816 carriages and trucks in 1862; the London and South-Western, from 177 engines and 4816 carriages and trucks in 1862; the London, Chatham, and Dover, from 49 engines and 5890 carriages and trucks in 1862; the London, Chatham, and Dover, from 49 engines and 5816, to 136 engines and 4870 carriages and trucks in 1862; the Manchester, Sheffield, and Lincolnshire, from 133 engines and 4872 carriages and trucks in 1862; the Molland, from 478 engines and 4870 carriages and trucks in 1862; the North-London, From 180 engines and 1,990 carriages and trucks in 1861, to 136 engines and 29,125 carriages and trucks in 1861, to 168 engines and 29,125 carriages and trucks in 1862; the North-London, from 46 engines and 29,125 carriages and trucks in 1861, to 201 engines and 29,125 carriages and trucks in 1863, to 467 engines and 29,125 carriages and trucks in 1863, to 467 engines and 29,125 carriages and trucks in 18

the United States has I square mile of coal to each 15 of land; Great Britain, I to every 221; Belgium, a like proportion; and France, but 1 of coal to every 220 of coantry. Adopting for the compated total area of the coantries and trucks in 1881, but 18 surjaces and trucks in 1881, but 18 surjaces and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 18 surjaces and 422 curriages and trucks in 1881, but 1881, regions and 3743 carriages and trucks in 1841, to 115 engines and 4722 carriages and trucks in 1862. The Socoth and trial himse have, of course, developed their rolling stock to a corresponding extent.

REPORT FROM NORTHUMBERLAND AND DURHAM.

SEPT. 10.—The Coal Trade continues to improve, although slowly, as the season advances the tone of the trade is evidently better, but before anything like general activity can prevail a great improvement must take place. The prospect for the sale of Hartley coal in future must be improved by the late disclosurer sepsecing the relative merits of it and the Welsh steam coal: it is quite evident that for general steam purposes the Hartley coal is unsepased by any coal in the market, or likely to brought forward. The only drawback, and the sole objection to its use, being the production of smoke an bet traced as the effect of careless firing, and neglect of the most simple apparatus, now well understood. It is a fact that by expenditure of the control of the most simple apparatus, now well understood. It is a fact that by expenditure of the most simple apparatus, now well understood. It is a fact that by expenditure of the most simple apparatus, now well understood. It is a fact that by expenditure of the most simple apparatus, now well understood. It is a fact that by expenditure of the production of smoke when the production of the second of the most successive production of the most successive production. The extensive royalties of Wood-house, containing the well known Hartley and other seams, are in the market to lot. The situation of these royalties is extremely good, being immediately adjoining the lately-sunk and most successful coliery at North Seaton, not far removed from the old-established and well-known colliers of Cowpen, Sleekburn, &c. on the whole, the sinking of the shafes in this district (that is, New Blyth) is a very simple affair. The depth is not very great, and no extraordinary obstacles are met with in the sinking, such as quicksands. This coal field is,

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

the Mayor of Darham) and acknowledged, the meeting was adjourned for a fortisipht.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Sirr. 10. — The adjustment of the wages question in South Staffordshire is, on the whole, progressing satisfactorily, though there are still some objections to overcome. The thin coal colliers are, in some cases, demanding an advance of 6d. instead of 3d. per day's stent, which would be an increase of 20 per cent. It is said that the carriage of the colliers have been somewhat diminished by the operation of the provisions of the contract of the contract of the carriage of the colliers have been somewhat diminished by the operation of the provisions of the contract of

REPORT FROM DERBYSHIRE, YORKSHIRE, AND LANCASHIRE.

REPORT FROM DERBYSHIRE, YORKSHIRE, AND LANCASHIRE.

SEPT. 10,—The Iron Trade is, on the whole, in an improving position, and the orders which have been received indicate a more healthy trade. The strike of the puddlers has had the effect of pushing the men in the Yorkshire district into branch societies for the regulation of their trade, and during the past week several have been started in connection with the head offices in Staffordshire. The Steel Trade is gradually improving, and there is a more healthy tone pervading the Cutlery Trades. The demand for armourplates is going ahead, and the firms engaged in their manufacture are working both night and day. Messrs. Brown and Co., of Sheffield, the eminent armour-plate firm, treated upwards of 1800 of their workmen to a holiday at Matiock, the effect of which will not be lost on their numerous hands. Mr. Georgs Fletcher, of the Sonthwark fromworks, has recently commenced the erection of some large works at Lichauch, Derby. They are to be called the Masson Ironworks, and as they are of very large extent, they will afford employment for a great number of hands. There is a largely-increased demand for rails, not only for the renewal of permanent way, but for other lines for which parliamentary powers have been granted during the last session of Parliament. The Coal Trade is certainly improving in these counties, though but gradually. The stocks are generally small, and the slightest impetus occasions a raily. There are many large colleries where the men have been only a ployed about half-time, but in most cases now the additional labour has been at three days extra per fortnight. For hard coal the enquiry for other sorts. Manufactures are still greatly depressed, and the consumption is, therefore, not a third of what is was prior to the American war. The operations at Edmund's Main are still going on actively, but no bodies have been recovered during the week. It is anticipated, however, that the water in the workings will be so far reduced as to admit of the reco

REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

SEFT. 10.—As predicted in former reports, the puddlers and others employed about the ironworks of this district have commenced a movement with the view of obtaining an advance in wages. There is no doubt entertained but that the ironmasters are quite prepared to meet the men in a liberal manner, and in another month it is expected that the labour difficulty will be completely and satisfactorily settled. The recent improvement in the Iron Trade is well maintained, and prices have now attained a point that enables the masters, in the majority of instances, to make a little profit. Buyers are tardy in giving out their orders at the advanced quotations, but the specifications in hand are sufficient to keep the works well employed, and the ironmasters show no disposition to accept contracts at less than the current rates. The general opinion prevails that the trade will be more brisk this winter than for the last two years, and present indications fully justify this conclusion. It is not, therefore, surprising that makers should show such firmness as regards prices. There is a considerable amount of activity evinced in some branches of the Coal Trade, and if the present demand continues for any length of time, I should not be surprised that the calmasters will demand and obtain an advance of from 6d to its per ton. The experts from Cardiff (the principal coal superior distinction of improvemental the trade. During the mouth of August, 181,192 tons were exported, being an increase of 15,000 tons as compared with the average of the previous even montis. For the sight months the exports were 303,564 tons against \$71,554 tons for the same period in the trade. During the month of August, 181,192 tons were exported, being an increase being made to increase the floating accommodation at the port of Lianelly. An Improvement Dock Accommodation Committee has been formed, and a meeting has taken piace between the members of this committee and some of the directors of the Lianelly Railway

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twenty e whole se some and the bear obably ing the cantries, larity. There can be no doubt, however, that future ages will award the subject of our memoir his meed of praise, and then his inventions will be properly valued. It may be truly said that this is tardy justice to a great mind, and it is to be hoped that future benefactors to the staple trades of the country will be more ilberally treated during their lifetimes. Amongst the many inventions and improvements which Mr. Regure introduced, the most valuable and important was the "iron bottom" in the paddling forances; and it appears that he received no benefit whatever from the invention, as he neglected to patent it. He also aktoched out a plan for supplying London with gas, and he was the author of a standard work on "Iron Metallurgy" (published at the Mining Journal office), and amongst his lesser productions were "Beggestions for Establishing a Port Gwent on the cast side of the Ust," &c. Deceased was a native of Chepstow, and he was in the 86th year of his a se.

Our Swansen correspondent writes (Sept. 10):-The trade of the

Our Swansea correspondent writes (Sept. 10):—The trade of the port continues brisk in all its branches, and a tide of prosperity appears to have set in. The large and continued influx of vessels is a sufficient indication of this, and the coal trade lately has been brisk in the extreme, the demands for foreign being extensives. The copper trade also evines considerable animation. The in-plate trade is the only branch in which depression is visible, and this, I presume, will continue the case as long as the American warcontinues. The tradic on the iswansea and Neath Hallway increases daily, fully justifying the want that existed for additional rallway secommodation. It is rumoured (but as the ramour comes from a Grandland and rallway secommodation. It is rumoured (but as the ramour comes from a Grandland and rangement is being talked about by which the tickets of the Swansea and Neath line will be available for the trains running on the Great Western from Swansea to Neath. This, of course, would be the first practical step to an amalgamation—a thing which ought not only to be vigorously avoided, but which would be in direct contravention of the principles of action on which the Swansea and Neath line was started, and on which the appeal to public support was reade. I do not place much reliance upon the rumour; but as straws indicate the course of the current, it is just possible there may be something in it, which it would be as well to night the bad. In re the bankruptcy of the Landore Alkail Company (Hunter and Co.), I find that the bankruptcy has been annulled, much to the dissatisfaction of local creditors, some of whom are clamorous thereat. The works still remain closed. The foundry at the Hafod Works progresses rapidly towards completion, and a manager is talked of from the neighbourhood of Lancahire. The branch of the Bank of Wales, established here, grown in popular favour, and is, I understand, doing good business, under the careful and judicious attention of the estate is fully anticipated in the hand

REPORT ON CORNWALL AND DEVONSHIRE.

[PROM OUR CORRESPONDENT IN TRURO.]

SEPT. 10.—Cornish mining industry is especially distinguished from any other industry of similar magnitude in this kingdom by the great proportion of "outside" capital invested in it. Railways, docks, and other works of like nature, are no doubt to a great extent cosmopolitan as to the sources from which they draw their capital; but in the other great industries of the kingdom the capital for their development is essentially of local origin—drawn from their immediate neighbourhood, or from localities sufficiently near to enable a personal supervision. It would be difficult to arrive at any very exact estimate of the relative proportions of Cornish and "outside" capital invested in the working of the mines of this country; but it is quite clear that of the money expended a very large proportion is brought into the county. As a rule, local shareholders in Cornish mines do not invest their money on the speculation of the mine alone, but with a view also to collateral advantages. Merchants and tradesmen of every class—from the leviathan proprietors of a monopoly port down to the pettiest village huckster—take up shares with the object, avowed and unconcealed, of pushing their trade; and, almost the whole trade of Cornwall being dependent on mining, people in business have really scarcely any option but pushing their trade; and, almost the whole trade of Cornwall being dependent on mining, people in business have really scarcely any option but to do so. The local "merchant" shareholder has not merely a prescriptive right to monopolise the supplies of the mine in his branch of trade, but he also considers that he has, to a great extent, a claim on all connected with the mine for their custom, so that the ramification of understood relations, between local trading shareholders and the mine and everystood relations, between local trading shareholders and the mine and everyone connected with it, is far more complicated, and more deeply rooted,
than anyone not intimately acquainted with the system pursued in Cornwall could at all imagine. Practically, there are scarcely any local adventurers in Cornish mines except those who reap, or expect to reap, collateral advantages. There are, no doubt, a few enthusiasts who take shares
in mines without having goods to sell, or relatives to push into a situation;
but they are so few, and enjoy but such very little consideration among
their keener neighbours, that for all practical purposes they may be left
out of consideration.

their keener neighbours, that for all practical purposes they may be left out of consideration.

It might be thought that, under such circumstances, local trading share-holders would realise inordinate profits; but experience shows that this is really not the case. There are so many of these "merchant" adventurers, that there is frequently a pretty active competition amongst themselves, which may to some extent account for this, although its real cause lies deeper. In fact, the system is a bad one, and like all bad systems, it can rarely be productive of good to anyone. Everyone knows the immense prizes which Cornish mining frequently affords; and I have more than once in these columns expressed my decided conviction that, as a whole also, Cornish mining might be made as profitable a branch of industry as any pursued in this country. That it is not so—an unfortunate but patent fact—is due to the multiplication of operations that never ought to have existed; and these owe their origin, in no small degree, to the readiness with which local merchants take up shares in concerns in which, as mines, they have no confidence, for the sake of pushing their trade—holping by their gain in the latter to more than compensate their probable losses in the former. With such a nucleus of shareholders, and by operations too well known to need description, a body of "outside" shareholders is to get as much as they can from supplies and salaries, without regard to the working of the mine, in which they have little confidence.

As I have said such a system is had—radically had. Of course such

without regard to the working of the mine, in which they have little confidence.

As I have said, such a system is bad—radically bad. Of course such a class of mine is no true representative of typical Cornish mining; if it were so Cornish mining would soon come to an end as an industry. But there is a sufficient number of such to weigh down and throw discredit on more sound undertakings, and it is not to the credit of the county—nor to its profit either—that such things should be encouraged by local people, who should (and indeed do) know very much better. Many people out of the county understand pretty well how all this is managed; but they generally make one great mistake—they are under the impression that it is a very profitable system to the merchant, which, however, everyone who knows the county must be aware is really not the case, at least at present. I do not, of course, mean to say that Cornish merchants who fall into this system—and even those who most dislike it, and many of them do, have scarcely an option—carry on a losing or a very bad business; but I certainly can say that, compared with what is done in other parts of England, they do not do a good business. Even with the most limited amount of competition, a continued succession of calls on bad mines scon reduces the highest possible profits to a minimum. I believe

parts of England, they do not do a good business. Even with the most limited amount of competition, a continued succession of calls on bad mines soon reduces the highest possible profits to a minimum. I believe it to be a fact beyond all question—and I know this opinion is shared by many of the ablest and most eminent among Cornish merchants—that traders who supply mines would do very much better, and so would the mines too, if they did not mix up taking shares with their business; but adventure in mines on their intrinsic merits, quite irrespective of supplies. It may be asked how it is, if the merchants find the present system so slightly profitable, they should still persevere in it, particularly considering the amount of odium which they incur by it—an odium which it would thus appear is not compensated for by any proportionate profit. It would be difficult to answer this question off-hand, but it is obvious that it is no easy matter to break through a system so time-honoured as "merchantadventurers" in Cornwall—although the system may, and, indeed, has, in the present position of trade and mining industry, become a gross anachronism. As things stand at present, no firm, however influential, could venture, without extreme risk, to break through the system. Bongre, malgre, they are obliged to take shares in lots of mines with which they would much rather have nothing to do; but being forced into this position, they are, of course, under the necessity of getting as much as deventurers by influencing the agents of the mine, &c., according to the

methods well-known and sanctioned. I do not desire to cast one word of methods well-known and sanctioned. I do not desire to cast one word of reproach at the leading Cornish merchants,—indeed, I think they have been subject to most unjust odium; for, from my personal knowledge, I am satisfied there is no more upright and honourable body of men in the kingdom. They have, unfortunately, become involved in a system difficult to break through; but I am satisfied no one is more aware of its unsoundness, or more thoroughly desire a change, than do someof the leading Cornish merchants. Indeed, in many respects, they are as long-suffering a race as many of the "outside" shareholders themselves. It is not the etiquette for leading merchants to realise their shares, if even they have an opportunity of doing so; and the credit which they are expected to give opportunity of doing so; and the credit which they are expected to give in many cases is quite incompatible with their supplying at small profits. If the interests of the leading merchants and the "outside" share-

holders—being those who really supply the funds for the working of our Cornish mines—are equally opposed to the present system, it may be asked. Who is it that is interested in maintaining it? To answer this question Who is it that is interested in maintaining it? To answer this question would exceed my limits this week, and therefore I must postpone it until another occasion. But that the subject is one that requires to be candidly discussed in the interest of Cornish mining, and, above all, in the interest of the out-adventurer, seems to me too obvious to render any apology necessary. Indeed, it is becoming every day more clear that if the latter is to have a chance of fair profit for his investment—and unless he has such a chance the stream of outside money now flowing into Cornwall must, sooner or later, stop—there must be a very considerable change in the Cornish system, which, however suitable at the time when it originated, is inapplicable to the present state of things. inapplicable to the present state of things.

THE LONDON ASSOCIATION OF FOREMEN ENGINEERS.

THE LONDON ASSOCIATION OF FOREMEN ENGINEERS.

On the night of Saturday the 5th inst. the ordinary monthly meeting of this society took place at 35, St. Swithin's-lane, City,—Mr. Jos. Newton, of the Royal Mint, occapying the chair. After the minutes of the previous meeting had been read and confirmed, the auditors for the past half-year brought up their report; this was of a most satisfactory character, and showed that, in both a financial and numerical sense, the Association of Foremen Engineers was prospering. The amount invested in Bank stock, in the Savings Bank, and held by the treasure for meeting current expenditure, approached 4001, whilst the number of ordinary and honorary members was 95. The library fund, which is separate and distinct from the general fund, was steadily increasing as also was the library itself. It is needless to say that the auditors' report was, under such circumstances, well received, and cordially accepted by the members. After this pleasant part of the evening's proceedings had been accomplished, the President called upon Mr. Gettilffe to read his promised paper, "On an Apparatus for Preventing Botler Explosions and Railway Accidents."

stances, well received, and cordially accepted by the members. After this pleasant part of the evening's proceedings had been accomplished, the President called upon Mr. Gertliffe to read his promised paper," On an Apparatus for Preventing Boiler Explosions and Railway Accidents.

Mr. Gertliffs, after some very unnecessary remarks as to his own incompetence for the task he had undertaken, proceeded to comply with the Chairman's request. The apparatus to which he proposed directing the attention of the assembled practical men was, he said, not an invention of his own, but that of M. Auguste Achard, a French engineer. It was a combination of mechanical and electrical appliances, which made the apparatus automatic, and aimost infallible in its action. A full-sized model placed on the table, and before the meeting, tended to render the expositor's explanations much more intelligible, though without a diagram it is somewhat difficult for us to convey to our readers an exact idea of its peculiarities. Briefly it may be stated that the claims of the safety-ensuing apparatus, so far as the boilers of stationary engines are concerned, consists in its ensuring a constantly level féed under all the inducements to variation arising from unequal work upon the engine. The float is the medium for exciting or interrupting the circulation of an electric current, and this, avalu, causes, by very simple means, a compound ratchet-wheel and levers to open or close the feed-cock of the boiler. The slightest subsidence or elevation of the water level induces thus a movement of the feed-cock in the direction required for the correction of the evil. To us it seems that the apparatus, which is small, and by no means costly, is admirably adapted for effecting its important purpose. It was stated, moreover, that it might be seen in daily action at the works of Mr. Cater, engineer, the Grove, Southwark, and that gentleman, in a written communication to the society, asserted that it was most effective, and seemed at the works of Mr. Cater,

ght to bear on the subject before them, as it was to note the fact than do no influence in lessening the number present at this meeting.]

THE BRITISH ASSOCIATION-NOTES.

THE BRITISH ASSOCIATION—NOTES.

On the Application of Machinery to Coal-Cutting.—Mr. Sam. Firth said—Numerous efforts have been made during the last 50 years to bring coal-cutting in mines under the influence of mechanical power, but in no case, I believe, except at the West Ardsley Colliery, has continuous operation survived the experimental period. I do not expect that the introduction of machinery into coal mines for the purposes named would materially diminish the number of persons employed, but rather that the effect would be to meet the increasing consumption. That increase may safely be taken at 2,000,000 tons per annum, and to supply this increase would require an anunal increase of labourers amounting to about 3600. Thus there will not be any displacement of labour. The steam-engine has a 20-in. cylinder, and the air-pump 18-in. The air is worked at a pressure of about 50 bs. to the square inch. The air is conducted down the shaft.in iron pipes of 4 in. in diameter, and thence to the workings (about 360) yards) in gas piping, and down the face by India-rubber piping of 1 in. diameter, which is connected to the machine. The machine is moved on iron rails iald on cross iron sleepers, and is propelled a little, after each blow of the plok, by the hand-wheel. Generally, the machine is passed three times over the face of the coal, each time with a longer pick, to gain the requisite depth for taking down. The first cut being 18 to 20 in., the second 9to 11 in., and the third from 6 to 8 in., 36 in. being the depth atmed at and accomplished. The actual quantity of work done in six consecutive days of eight hours each, by one man with one machine, and that, too, the most severe and trying work in boys would do the work of 40 men, and that, too, the most severe and trying work in the man is attended by two boys, who clean out the grove, and remove the coal thrown out by the machine. In the West Ardsley that works, which were a described by the machine of the propose. It is 47, thick, having a good or of and for

if we look at those results from a humane point of view, the sconer they are realised the better it will be for all parties, and especially for the working coilier.

IMPROVED STEAM-BOILERS.—Among the various objects which have been exhibited at the Corn Exchange, in connection with the meeting of the British Association for the Advancement of Science, are working models and drawings of steam-boilers, by Mr. William Inglis, of Montreal, Canada. These Improved boilers deserve the attention of all who are interested in the production and use of steam. One of the principal objections to almost overy variety of boiler now in common use is the defective circulation of the water; that while the tubes and fuse for the passage of the fame and hot gases have been arranged with great care and ingenity, the arrangements for the circulation of the water inside the boiler have been altogether overlooked, the result being in many holiers the overheating and burning out of the plates and tubes, on account of the particles of steam remaining in contact with the heated surface. In Mr. Inglis' boilers, the farnace and flues are arranged to promote the thorough combustion of the fuel, but the distinguishing feature is the arrangements for a perice direculation of the water, and which is clearly shown in the model boilers by having these constructed in glass, the motion of the water and steam being distinctly seen while the boiler is in full operation. We may add, that several of these boilers are now being made in this town, under the superintendence of Mr. J. P. Sigencer, consulting engineer, a large one being about completed at the works of Str. V. G. Armstrong and Co. Two others are also in course of construction at the works of the Messrs. Hawthorn. The construction of these boilers is suitable for very high pressures,

and those that are being made at Messrs. Hawthern's works are intended for a of 200 lbs. per square inch.

and those that are being made at Mesars. Hawthorn's works are intended for a pressure of 200 bs. per square inch.

THE SUPPLY OF COAL.—If the statements made by Sir Wm. Armstrong are well founded (and as yet no one of any authority has come forward as the contradictor of the great artillerist), the supply of our most valuable mineral is running so scant that the grandchildren of the preposnt generation may see the day when the great rational coalbole will be completely exhausted. The contingency, at a period near at hand, is of rightful a cose that the mind is averse from looking to it; but such as it is, it must be considered deeply and in all its bearings as soon as the Fariament r-assembles. It is to be hoped, indeed, that no foreign question wintever—Folish, American, Turktah, Roman, or Scandinavian—will obtain a hearting until this, the most tipopratin of all pending questions, shall have been deeply religiously to the contrading the crisis through which, as it appears, our country will be wonething towards retarding the crisis through which, as it appears, our country will be wonething towards retarding the crisis through which, as it appears, our country will be wonething towards retarding the crisis through which, as it appears, our country will be wonething towards retarding the crisis through which, as it appears, our country will be wonething towards as the legislan collage, or a Beigian partour or titleban, be visited, and it will be found that saving is to be effected is no other than our next-foor neighbour—the Beigian. Let a Beigian collage, or a Beigian partour or titleban, be visited, and it will be found that saving in ahape and principle, agree closely in the point seem closed—which, while varying in ahape and principle, agree closely in the point seem of colors of the kindle of the proposed of the proposed of the contrading the c

whether our existing goologists can either confirm or relate the opinions of parkind and Sir William Armstrong on this subject.—W. C. I.

THE PERMIAN ROCKS.—In the account of the proceedings of the Geological section of the British Association at Newcastle-upon-Tyne, given in the Times of Sept. 3, I am reported to have said that "in the East of England there was no perceptible deposit which could be classed with the Permian." Now, geologists well know that there is an important development of these rocks (of which the magnesian lineatone forms the principal part) in the country of Durham, whence the range southwards to Nottingham. What I stated was, that in the East of England there existed no such grand exhibition of the lower membered in the northwestern counties of Westmoreland, Cumberland, and Lancashire, in which this lower Permian is an enormoda secumulation of red sandstone and breeck. I further showed, that in these counties the Fermian group assumed a tripartite character, and consisted of the before-mentioned inferior sandstones, a courtal magnesian lineatone, and an upper sandstone, which is largely exhibited at St. Bees' Head and other places; the same tripartite tharacter and the same tripartite arrangement being there maintained as that which I pointed out many years ago as prevailing in Germany and Ruesia. The name of Permian, which I suggested for the group which lies between the carbonicrous rocks and the New Red Sandstone or Trias, was proposed by me in 1841, because the large of the New Red Sandstone or Trias, was proposed by me in 1841, because the large of the New Red Sandstone or Americangue, the previously had no collective mane, were found by myself and associates to extend over avat region of Russia (much larger than France), of which the ancient kingdom of Permia formed a part. The name has now been generally adopted by English. French, and American geologist to designate the uppermost division of the Primary or Paleozoic series. Many years ago the chief member of these rocks which the

thas proving that this one was formed in the Palenczoic era, as had been suggested by Professor Phillips.—Roderick I. Murchison: Absoick Castle, Sept. 5.

Internal Heat of the Earth.—At the recent meeting of the British Association, Sir William Armstrong, in his inaugural address, states the increase of temperature below the earth's surface to be one degree of Fahrenheit for every 60 feet in depth. Now, Sir John Herschel states it to be one degree of Fahrenheit for every 90 feet (see article in "Good Words" for Jan.), while Mr. Edw. Hitchcock, in his "Religion of Geology," has the following passage:—
"The mean rate of increase has been stated by the British Association to be one degree of Fahrenheit for every 45 feet." The following extract, on the same subject, is taken from the Mining Journal of Nov. 24, 1860:—"At the Manchester Philosophical Society Dr. Fairbairn made some observations respecting experiments conducted in the Dukenfeld coal pit, for the purpose of determining the increase of temperature below the earth's surface. He stated that from these experiments a mean increase of one degree Fahrenheit for every 1ft. had been arrived at." On comparing these statements a wide difference in the results will be observed, sufficient almost to lead one to conclude that the increase of was really variable in the different districts where the experiments were trief. Perhaps some of your scientific readers will throw a little light on the subject, upon which there seems to prevail such a diversity of opinion.—W. H. P.: Chirk, N. W.

Temperature of the Earth's Crust.—The difficulty in reconciling the different statements as to the rate of increase of temperature in de-

the different statements as to the rate of increase of temperature in descending through the earth's crust has a solution. That this earth was once a fluid mass bears mathematical demonstration. The constitution arrest. scending through the earth's crust has a solution. That this earth was once a fluid mass bears mathematical demonstration. The constitution, appearance, and position of the "unstratified" rocks indicate that this fluidity was due to intense heat, and we conclude that we now inhabit the cooled surface of a once moiten globe. The fact that the temperature increases with the depth, as proved in Artesian wells and mines, coupled with volcanic phenomena and thermal springs, has induced the belief that the centre of the earth still remains in the state of fusion. If this be the case, and the rise of temperature in descending a mine be due to the approach of this molten matter—even allowing for the difference of conduction in the various strata in which the observations were made—such large differences as to the rate of increase ought not to appear. But, in addition to this objection, there are many facts which militate against the "molten centre" theory. In the Sandwich Islands there is a volcano—Mount Loa—10,000 ft, high; 4000 ft, from its base there is a lateral crater, Kilanes. It frequently happens that one crater is in active cruption while the other is quiescent. Now, it is clear that these craters cannot obtain their lava from the same reservoir, for the same pressure which forced the lava to the highest crater would also produce a jet 6000 ft. high from Kilanes. The density of the earth would be very much increased were the centre molten. It has been proposed, in order to evade this difficulty, that the temperature is so intense 150 miles beneath us that all matter is in a gaseous state; but unless our notions as to the possibility of containing a gaseous sphere in a liquid envelope materially change, this auposition must be abandoned. That this interior heat that all matter is not not the surface of the earth is inconceivable; for if a sphere of state; but unless our notions as to the possibility of containing a gaseous sphere in a liquid envelope materially change, this supposition must be abandoned. That this interior heat has no effect on the surface of the earth is inconceivable; for if a sphere of fron 12 in. in diameter, heated to 190°, be supposed to represent this molten centre, the crust on which we live will be but the thickness of writing paper, and what insulator can be found of such a thickness that it will be able entirely to repress even the low heat of 126°? But the supporters of the "molten centre" theory have a still more serious difficulty to contend with. By means of the times of celipses left as by Hipparchas 2000 years ago, we can prove that the earth has not cooled, or in other words that the day has not shortened; and can anyone be found daving enough to assert that a ball of intensely heated matter, covered with a skin of by no means the highest insulating powers, of a thickness only 1.160th of its diameter, could find in a space which has a temperature of 220° for 2000 years, without cooling even a fraction of a degree? Then how is the increases of temperature in descending mines to be accounted for it has "molten centre" theory be abandoned? On examining tables of experiments in mines, it will be found that the temperature only increases when the mine is working. The Oatfield engine-shaft, at a depth of 183 fram, had a temperature of 70°, so long as the mine was working; but, on being abandoned, in a few months it had cooled down to 60°, and in many months after it had reached its equilibrium, 54°. The highest heat, given in a table by Mr. Moyle, was found in the Wheel Abraham shaft, at a depth of 180 feet, where the air was 90°. But since the construction of that table a lode was pierced in a Cornish mine, which contained water of so high a temperature that the mines were scaled; and it still retains the name of "Bolling-water Lode." Of ten abandoned mines, only one was found in which the temperature at all varied, and proba

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cosed to the action of the air). The friction in extricating the ore, the presence of the sers, the heat of their candles, blasts, electric currents, see, all sid to raise the temperature would naturally increase as the mine despends, in consence of the greater density of the air. Seeing all these are variable causes, your corposedent will have no difficulty in accounting for the discrepancy in the results of the estigation of the screens he has quoted.—H. M. H.: Blackheath.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

The Charlerot works have just concluded with the Granolices and San Juan de las Abadessas Railway Company's a contract for about 2000 cons of rails. The contract of the sarrange of the sarra

Cast-Iron Girders.—In a letter to the Times, Dr. Percy says—" My friend, Mr. James Fergusson, 20, Langham-place, having informed me that several of the cast-iron girders at the German Bazaar were much bent, and the cast-iron columns distorted by the operation of the fire which occurred there as few weeks ago, in concert with him, on the 1st inst., I visited the site of the bazaar. With your permission, I will now briefly relate what I saw, as the subject is one of considerable importance with reference to the use of cast-iron for building purposes. The girders were 18 ft. long, and 13 in. deep in the middle, tapering off alighty towards each end, and fianged, as usual, at the bottom. Several had fallen to the ground, of which only a few were broken; and of those which remained entire two were boat laterally, in a striking and nearly equal degree. The flexure was saire to the ground, of which only a tew were broken; and of thouse which remained entire two were bont laterally, in a striking and nearly equal degree. The fexure was gradual from end to end. The deviation from a straight line at the ends was 22 in. No cracks could be anywhere be detected. Many of the cast-from columns, which are still upright, have been singularly twisted at the upper part, as though the metal there had been softened by heat, and yielded without cracking to the effect of pressure from above. So far as we could judge, there was no very decided evidence of fracture in either girders or columns from the injection of water upon them; and yot, from the fused glass and other objects which lie scattered about it, is certain they must have been exposed to a pretty high temperature. It is not often that an opportunity occurs of observing results such as I have here recorded, and which, I think, deserve attention from engineers and architects. They may, possibly, be familiar to many persons, alchough they are novel to Mr. Fergusson and myself. It would be extremely desirable that specimens of these bent girders and twisted columns should be preserved in some public museum, where they might at all times be accessible for reference. A museum of objects in illustration of socidents, such as the bursting of boilers, breaking of rail-way axies and tyres, railway collisions, &c., would be as interesting as it would assuredly be important in a practical point of view."

THE FIRING OF THE WELLINGTON COLLIERY, WHITEHAVEN.—We re-

edly be important in a practical point of view."

THE FIRING OF THE WELLINGTON COLLIERY, WHITEHAVEN.—We regret to learn, from the Ounsberland Pacquet, that, notwithstanding the great efforts which have been made, the fire at the Wellington Pit continues to rage with unabated fury. All ordinary measures, such as pumping water from the sea, and drawing it from the sources mentioned last week, having proved ineffectual, it was determined to cut a drift from the shore to the shaft, and so let in the sea. This work has been vigorously prosecuted since Saturday, the drift from the shaft having gone on without intermission. A small pit is being sunk on the shore, which will communicate with the drift from the shaft. This operation is attended with considerable difficulty, the workmen being driven away when the tide is up, and much of the work having to be done over spain. The supply of water at the reservoir be-

came exhausted yesterday, and consequently the work of extinguishing the fire became almost at a standatill for a time, as the pumping of water from the sea by the bath-hous pumps can only be carried on when the tide is in. It is settimated that 5,000,000 gallon of water will have to be thrown into the mine before the fire can be extinguished.

NEW PATENTS.

PROVISIONAL PROTECTION for six months has been granted for the following

NEW PATENTS.

PROVISIONAL PROTECTION for six months has been granted for the following during the past week:—

A. A. Baron De Rostano, Parls.—An improved method of manufacturing iron and steel, with cast-iron taken in the sub-divided state. Dated July 28.

R. J. CUNNACE, Cornwall.—Improvements in the manufacture of cartridges for blasting and projectile purposes. August 10.

G. YATES, Oawaidhirstle, Lancaster.—An improved means, or method, of indicating the number of tubs, or other measures, or quantities of ecal, or other substances or material drawn from pits or mines. August 18.

J. S. CROSLANO, Ashton-under-Lypne.—Improvements in lubricating, and in arrangements and mechanism for lubricating, the bearings, journais, or steps of spindles, shafts, axles, and other mechanism. August 17.

T. Dodd, Rotherham, Tork.—Improvements in chimney-tops, which improvements are also applicable to coverings for vantilating shafts or dues for mines and other places. August 13.

J. YATES, Rotherham, York.—Improvements in the manufacture and fitting or secuning of armour-plates, blocks, or bars, and in the machinery or apparatus employed therein, parts of which improvements are applicable to heavy forgings generally. August 19.

R. A. BROMAN, Fleet-street, London.—A new metallic alioy. August 22.

A. JORSON, Darlington, Durham.—Improvements in machinery for drawing or discharging coke-ovens, and loading coke-wayons. August 24.

W. E. Newton, Chancery-lane,—Improvements in schings or oscilloyed for raising and lowering the workmen and their tools or implements. August 26, 1863.

LETTERS PATENT have been issued for the following:—

C. M. Palmer and J. M'Intrex, Jarrow, Durham.—An improved mode of applying and fastening metal sheathing to the bottoms of Iron ships or vessels, and to Iron for the research of the particular of animal charcoal.

A. CUTHILL, Skerton, Lancaster.—Improvements in self-acting dampers for steamenzine farmaces. March 4.

J. F. GITS, Antwerp.—An improved furnace for the revivification of animal charcoal.

R

Reel. June 25.

LIST OF SPECIFICATIONS published during the week ending August 29:—
Manufacture of iron and steel, 2s. 10d.; apparatus for holding castings whilst belianed or shaped, 1s. 4d.; artificial stone, 4d.; manufacture of sulphate of soda, 4d runshing and grinding quartz, &c., 3d.; hydraulic machinery for raising water in mine &c., 4d.; bronzing, colouring, and preserving iron and steel, 4d.; manufacture of cas ron pipes, 4d.

Furnished by L. DE FONTAINEMOREAU, Patent Agent.

The late Samuel Balowyn Rogers.

The Inte Samuel Balowyn Ringers.

It is our painful duty to record the decease of our valued correspondent, Mr. Samuel Balowyn Rogers, who died, after much suffering, during an illness of some weeks, at Newport, Monmonthshire, on Saturday evening last, Sept. 5, at the advanced age of 86, and after a residence of 50 years in the county. Mr. Rogers has left a good reputation as an industrious, honest, and talented man, who was always at work for the interest of the public, and for the promotion of those branches of science more immediately connected with the Iron Trade, every member of which must feel that he owes him a deep debt of graittude for his inventions and improvements. More than half a century has elapsed since Mr. Rogers's improvement in the manufacture of coke was put into operation at Pontypool, and he had been an assiduous worker ever since for the improvement of iron metallurgy. We shall briefly recapitulate some of his labours on that head, and first we shall refer to the invention of iron bottoms for pudding furnaces. This has likewise been in operation as long as half-a-century, and has greatly benefited the trade, to the extent, according to some calculations, of many millions. This great invention, we believe, actually went begging, Mr. Rogers having to beg that it might be adopted, and, as it has been successful, of course he has not been rewarded. We may safely say that he never recaived a shilling for it, but as he is now dead, and has died altogether destitute of worldy means for the provision of an imbedie daughter, we trust that those who have so largely profited from the use of his discoveries will at least come forward to aid in providing an asylum for so deserving an object for their consideration.

It is well known to our readers that owing to the intense heat of furnaces they are ilabie to rapid destruction, and that the hearths have to be covered with artificial hottoms. In the last century those for iron furnaces used to be of sand, as they also were in some other metallurgical pr

THAMES TUNNEL COMPANY.—Receipts for the week ending September 5, 601. 14s. 7d.; number of passengers, 14,575.

Royal School of Mines.

ROYAL SCHOOL OF MINES

MINERALOGY—KING'S COLLEGE, LONDON.—
PROF. TENNANT, F.G.S., will COMMENCE a COURSE of LECTURES on
MINERALOGY, with a view to facilitate the study of GEOLOGY, and of the APPLICATION of MINERAL SUBSTANCES in the ARTS. The lectures will begin on
Friday, October 2, at Nine o'clock A.M. They will be continued on each succeeding
Wednesday and Friday at the same hour. Fee, £2 2s.
R. W. JELF, D.D., Principal.

TOOR SALE, SIXTY TONS of ROUND IRON BARS, 18 lbs. to the yard, suitable for rails in quarries or mines, and other purposes.

Apply to "H. E. S.," care of Mr. Bradsbaw, 34, Jermyn-street, London.

FOR SALE, a splendid nearly NEW 30 in. cylinder STEAM PUMPING ENGINE, with 10 ton BOILER, very bright, and in perfect order.

WANTED, by an established firm, a FIRST-CLASS COPPER and BLASTING POWDER AGENCY for the NORTH OF ENGLAND. Address, "Z.," Fost-office, Middlesbro'-ou-Tees.

DARTNERSHIP.—A WELL ESTABLISHED WHOLESALE
HOUSE is OPEN to ADMIT a PARTNER who can command from £3000 to
£5000, for the purpose of extending a most profitable business. The concern will bear
the strictest soratiny, and is an opportunity selfolom met with: 40 per cent. is realised
upon the capital at present employed, and it can be greatly increased. This will suit a
gentleman who desires a good income without much anxiety or trouble.—Only those
with the required capital at command can receive full particulars from Mr. JAMES
HUTTON, accountant, 26, Moorgate-street, City.

TO IRON FOUNDERS, IRON MERCHANTS, ENGINEERS, AND OTHERS.—A LARGE IRON FOUNDRY, in full operation, with PLANT, ENGINE SHOP, WAREHOUSE, STOCK, &c., in the neighbourbood of Edinburgh, FOR SALE, BY PRIVATE CONTRACT. The works are well known, established about 30 years, have an extensive local trade, and are exceedingly well situated for the London and continental markets. A more desirable opening is rarely to be met with. The most satisfactory reasons will be given for the sale, and full particulars will be afforded on application to Mr. Henny Rogens, 43, Upper Thamce-street, London,

India Office.

BY ORDER OF THE SECRETARY OF STATE FOR INDIA IN COUNCIL, notice is hereby given that the DIRECTOR-GENERAL OF STORES FOR INDIA will be READY, on or before MONDAY, the 14th instant, to RECEIVE PROPOSALS in writing, wealed up, from such persons as may be willing to SUPPLY—
CAKE and SLIF COPPER.
And that the conditions of the said contracts (two in number) may be had on application at the India Store Office, Cannon-row, Westminster, where the proposals are to be left any time before Two cyclock P.M. of the said 14th day of September, 1863, after which hour no tender will be received.

India Office, September 7, 1863.

SOUTH-EASTERN RAILWAY-CONTRACT FOR THE SUPPLY OF STORES FROM SEPTEMBER 31, 1863, TO MARCH 31, 1864.—
The Directors are PREFARED to RECEIVE TENDERS for the SUPPLY of the
UNDERMENTIONED STORES, viz.:—

MENTIONED SAVAGES, MEC.
1.—TURPENTINE, &c.
2.—TRON AXLES, TYRES, FORGINGS, &c.
3.—GENERAL IRONMONGERY, TOOLS, &c.
4.—FILES, STEEL, SPRINGS, &c.
5.—SHEET BRASS, BRASS and COPPER TURES, FINISHED BRASS WORK, &c.
6.—TIN, TIN WORK, LEAD, ZINC, and OTHER METALS.
7.—GLASS, LAMPS, and LAMP MATERIALS,
8.—VARNISH, PAINT, DRYSALTERY, &c.
9.—HOPES, CANVAS, BAGS, FELT, &c.
10.—COACH TRIMMINGS, CARPETING, CLOTH, HORSEHAIR,
TOWELLING, &c.

9.—ROPES, CANVAS, BAGS, FELT, &c.

10.—COACH TRIMMINGS, CARPETING, CLOTH, HORSEHAIR,
TOWELLING, &c.

11.—EATHER, HOSE PIPES, STEAPS, &c.

12.—BRUSHES, BROOMS, MATS, &c.

13.—WOOD-VOEK.

14.—SUNDRIES.

Specifications and forms of tender may be had on application, in writing, to the store-keeper, London Bridge Terminus.

Forms of tender for each contract are printed separately, and parties applying should state the particular contract for which they propose to tender.

Patterns may be inspected on and after the 12th inst., at the stores office, Brick-layers' Arms station, and any further information required may be obtained at the store-keeper's office, London Bridge Terminus.

Tenders to be returned on or before the 26th inst., endorsed "Tender for Stores," addressed to the Secretary, London Bridge Terminus.

London Bridge Terminus, September 3, 1663.

TENDERS WANTED for about SIX HUNDRED TONS of METAL TUBBING. Not less than one-fifth part of hematite to be mixed with the metal. Scaled tenders to be addressed to the RYHOPE COAL COMPANY, Sunderland, on or before the 16th proximo. The company do not bind themselves to accept the lowest or any tender.—Sunderland, August 21, 1863.

TO PROMOTERS OF PUBLIC COMPANIES, SOLICITORS, AND OTHERS.—WANTED, the ASSISTANCE of a SUIT-ABLE PARTY, to FORM a LIMITED LIABILITY COMPANY, to WORK A VALUABLE COPPER MINE IN MERIONETHISHIRE, NORTH WALES. Or the property would be sold on reasonable terms.—Apply to Mr. Pritchard, Mining Journal office, 26, Freet-street, London, E.C.

METAL TUBES AND CYLINDERS.—The ADVERTISER has COMPLETED an IMPROVEMENT in MACHINERY for MANUFACTURE of SAME, which is protected at home and abroad. He is now DESIROUS of JOINING with a CAPITALIST to FURTHER the UNDERTAKING, which promises to be a valuable one. A machine is ready for view.—Apply to JNO. KENDRICK, 20, Easy-row, Birmingsham.

A GENTLEMAN of active habits, and many years' experience in the IRON TRADE, who has held confidential and responsible situations in Rhentsh Prussia, is thoroughly sequainted with the mining and metal working establishments of Beigium and Germany, and who is also thoroughly conversant with the French and German languages, and the forms and modes of business as carried on in those countries, DESIRES to ENTER INTO fresh ENGAGEMENTS with any ENGLISH or CONTINENTAL FIRM REQUIRING a REPRESENTATIVE AGENT or TECHNICAL MANAGER of MANUFACTURES in STEEL or IRON, or of any mining undertaking of a bone fide character. The advertiser could also engage to superintend the entire arrangement and organisation of a new enterprise, and the erection of all buildings and machinery necessary for such purpose. Unexceptionable references as to standing, character, and qualifications; and security, if required, can be given. None but principals treated with.—Address to "T. M. W.," care of Messra. Deacon, No. 184, Leadenhall-street, London.

TAMAR SILVER-LEAD MINING COMPANY.—
Notice is hereby given, that a GENERAL MEETING of shareholders will be HELD at Messrs. Dunsford and Ranken's offices, 9, Broad-street-buildings, London, on MONDAY, the 5th day of October next, at Two o'clock precisely.

By order of the Directors,
September 8, 1863.

DUNSFORD AND RANKEN, Managers.

FORTUNE COPPER MINING COMPANY OF WESTERN AUSTRALIA (LIMITED).—Notice is hereby given, that the FIRST ANNUAL GENERAL MEETING of the Fortune Copper Mining Company of Western Australia (Limited) will be HELD at the offices of the company, 9, Gracechurch-street, London, E.C., on WEDNESDAY, the 16th inst., at Two o'clock precisely.

R. NICHOLAS, Sec.

A DELAIDE LAND AND GOLD COMPANY.—Notice

Is hereby given, that the liquidators will be PREPARED to PAY a THIRD
INSTALMENT of THREE SHILLINGS AND SIXPENCE PER SHARE, on MONDAY, the 28th day of September, and two following days, between the hours of Eleven
and Two o'clock, as under.

BANCOCK, SHARP, AND HALES,
20, Tokenhouse-yard, London, August 31, 1863.

20, Tokenhouse-yard, London, August 31, 1863.

O P P E R M I N E S I N S A N T O D O M I N G O.—

At a MEETING of mining engineers, private investors, and others interested in establishing THE PLATANO MINING COMPANY (LIMITED), held on Wednesday, the 26th August, 1863, at the offices of the company, 36, Cannon-atreet, London, E.C., the documents hereafter mentioned having been read and discussed, and other information elicited, the following resolutions were passed unanimously:—

Proposed by Capt. SAMYSON VIVIAN, seconded by ADAM MURRAY, Esq.,

Mining Eugineers:—

That the reports of Colonel T. S. Heneken, of St. Domingo, and of Messrs. John Pooley and Thomas Husband, mining captains, of Cornwall, employed by him on the copper lodes, &c., of El Piatanito, are very satisfactority verified by the reports of Professor Ansted and of Don Manuel Fernandez de Castro, Inspector-General of the Cuba Mines, commissioned to report on the mineral resources of St. Domingo by the Spanish Government.

commissioned to report on the mineral resources of St. Domingo by the Spanish Government.

Proposed by EVAN HOPKINS, Esq., Mining Engineer, seconded by SWINBORNE J. BOND, Esq.:—

That the indentification by Mr. Thomas Husband of the ove in its natural condition, exhibited to this meeting as samples of the produce from the eight copper lodes and their feeders at El Piatanito, and as being precisely conformable with the ores thence consigned to Messrs. Richardson, of Swansea, and the detailed information given by him of the character, progress, and prospects of the mines, should be accepted as conclusive evidence of the great local advantages, essential condition, and highly profitable nature of the undertaking.

Proposed by HENEY NESBITT, Esq., seconded by W. H. MACKRETH, Esq.:—

That the prospects for the formation of a company to purchase the freehold estate of El Piatanito and realise its mineral wealth, founded on the preceding resolutions, and now submitted to this meeting, is deserving of private encouragement and public confidence and support.

Copies of prespectures, maps, reports, &c., may be obtained on application by letter, or personally, from Mr. LEE STEVENS, 36, Cannon-street, London, E.C.

PREFERENCE SHARES—GUARANTEED INTEREST.

PREFERENCE SHARES-GUARANTEED INTEREST.

PREFERENCE SHARES—GUARANTEED INTEREST.

OLLERN COLLIERY COMPANY (LIMITED).

(STEINKOHLEN-BERGBAU-ACTIEN-GESELLSHAFT, ZOLLERN).

The liability of the shareholders in which is limited by the laws of Prussia to the amount subscribed.

Original share capital

Original share

VICE-PRESIDENT—Dr. MUSEE, Dortmund.
W. CRUWELL, Esq., Dortmund.
Lleut.-Col., BENICKE, Disseldorf.
W. KONNECKE, Esq., Burgoreaster of Hidden.
W. LEVISON, Esq., banker, Minden.
This company was formed in 1896, with a capital of £210,000 (1,400,000 Prussian thalers), for the purpose of developing 13 adjoining coal mining concessions, comprising the coal seams beneath about 3250 English acres, the whole of which seams are profit-adjuncted by the owners of the surrounding properties. The coal is well adapted for coking and other purposes,

the coal seams onesath about 2350 Sangins acree, the whole of which seams are promisely worked by the owners of the surrounding properties. The coal is well adapted for coking and other purposes.

The property is advantageously situated, near Dortmund, within easy reach of the Rhine, and also of Hamburg and Bremerhafen, which are the principal shipping ports on the German Ocean.

The whole of the necessary buildings and machinery have been erected, with the exception of one additional powerful pumping machine, found requisite in consequence of more water being met with than had been calculated upon. The whole of the said machinery is in first-rate working order.

To procure the additional pumping machine, and to complete the opening up of the colliery, the company has, in general meeting, resolved to raise a loan of 800,000 thalers. Prassian currency (£75,000), by the issue of 5000 preference shares of 100 thalers (£16) each, the calls paid upon which will bear interest at the rate of 5 per cent, per annumuntil the mines are in full working order. The preference shareholders will likewise beentitled, out of the nett profits of each year, to a preference dividend of 10 per cant. (Including the 5 per cent, interest referred to above) before any distribution is made to the ordinary shareholders.

The preference shareholders will be sund at 85 per cent, and the calls are not to exceed 25 per cent, nor to be made at intervals of Jess than six weeks.

No depocit will be payable until the adiotements made, and no allotment will be made unless at least four-fifths of the shares be subscribed for.

Further information, together with memorands and extracts from the official reports, and copies of the supplement to the Articles of Association, securing the rights of the preference shareholders, may be obtained of Mr. J. A. D. Hundrakaw, Il, South-sireet, Firmbury, E.C. (the representative of Mr. M. B. Hundrakaw, of Hamburg, by whom the raising of the loan has been undertaken), who will remain fer a short time in this coun

MARTIN'S PATENT ANCHOR COMPANY

Capital £50,600, in 10,000 shares of £5 each.

(With power to increase so £100,000.)

10s. per share to be paid on application, and £1 los, on allotment.

The company has, by the Devd of Incorporation, taken power to extend its business, not only to the manufacture of anchors, but also to chain cables, and all other metal work relating to shipping.

Vice-Admiral the Hon. Sir MONTAGU STOPFORD, K.C.B.

Bear-Admiral W. H. HALL, C.B. (Director of the Peninsular and Oriental Steam Navigation Company).

vigation Company).
GEORGE BROCKELBANK, Eaq., Greenwich (Director of the Union Bank of Engla

and France).

HENRY DANVERS CLARKE, Esq., Atcombs-court, Glouce square. Hyde-park.

square, Hyde-park. Capt. W. O. YOUNG, Newman's-court, Cernbill. Resr-Admiral Sir THOMAS RAIKES T. THOMPSON, Bart., Manor House, Thori

Falcon, Somersetahire.

JOHN GARDNEH, Esq., 23, Montague-street, Russell-square, and 136, Gra

JOHN GARDNER, Esq., 20, Montague-Sirves, Manuscher, City.

THOMAS YOUNG, Esq., 8, Sackville-street, Piccadilly.

EDWARD JEFFCOCK, Esq., Queen's-road, Hyde-park.

Capt. GEORGE DEN NY, H.E.I.C.S., General Shipowners' Society, 29, Gt. St. Helen's.

BANKERS—The Union Bank of England and France, 83, King William-street;

BANKERS—Met William-street;

BOLICITORS—Messrs. Newbon, Evans, and Co., 1, Wardrobe-place, Doctors' Commons.

BROKERS—Messrs. J. Hutchinson and Son, Angel-court, Throgmorton-street; Mr. John

Smith, Birmingham.

AUDITORS—Mr. J. Holah, Tokenhouse-yard, E.C.; Mr. T. M. Tilby, 3, Duke-street,

Adolphi.

SECRETARY—H. Ladbroke Clarke, Esq.

TEMPORARY OFFICES,—44, OLD BROAD STREET, E.C.

PROSPECTUS. Martin's Patent Anchor Company has been formed for the purpose of manufacturin a anchor which is in every respect invaluable for the security of ships and the presentation of lives at sea. It has been proved, by experiments undertaken by the Master all Brethren of the Trinity House, Newcastle, with a view to decide the comparative reties of all the anchors at present in use, that Martin's patent anchor possesses so man ivantages over all others that it is certain at no very distant date to be generally looked.

merits of all the anchors at present in use, that Martin's patent anchor possesses so many advantages over all others that it is certain at no very distant date to be generally adopted.

The necessity for the adoption of anchors and chain cables of the very best description, both in the Royal Navy and mercantile marine, is now becoming imperative, since it is nearly certain that the Legislature will shortly compel all manufacturers to submit their anchors and cables to a Government test. This must necessitate the use of the best mooring gear, and afford a favourable opportunity for the introduction of Martin's patent anchor, which has been proved to possess the following advantages over all others:

1.—It takes hold instantly, in whatever position it falls.

2.—Its holding power is 100 per cent, greater than that of the ordinary anchor, 75 per cent, greater than either Porter's or Rodger's, and 50 per cent, greater than Trotman's.

3.—Whilst its holding power so far exceeds that of all other anchors, it also bars the proportionate increase of strain required.

4.—Having no stock, and both Sukes taking hold of the ground at the same time, it can neither foul nor become fouled, and, being composed of three main parts, it can be taken to pleese and stowed away with facility, the great advantages of which will be appreciated by all practical men.

5.—From the nature of its construction it dradges well, can be tripped, caited, and shahed much more easily than any other anchor.

4.—Being lighter than any other anchor.

4.—Being lighter than any other anchor.

5.—To the the cheepest of all anchors, where the quality of the material is equally good, and taking into account the difference in weight.

Few people are acquainted with the great extent and importance of the anchor trade of this country. Engiand has about 40,000 merchant ships of all sizes afoat, and about 2000 new once are acquainted with the great extent and importance of the requirements of the British Navy, and also of the large export trade in anchors.

ta moderate calculation, and estimating the annual return at 60,000t., a very large of ridend will be insured to the company.

The directors have made exceedingly advantageous terms with the patentee, by which is remuneration depends entirely on the profits realised by the company.

Negociations for premises admirably adapted for the works are in progress.

About 500 of Martin's patent anchors have been already manufactured, and are a

orsent in use,

If no allotment of shares takes place the deposits will be returned.

Prospectuses and forms of application for shares may be obtained of the be

of the secretary, at the temporary offices, 68, Old Broad-street, E.C.

THE PATENT FILE COMPANY
(LIMITED).
Incorporated under the Companies Act, 1862.
Capital £100,000, in 10,000 shares of £10 each, of which not more than £50,000 will be required to set the works in full operation.
Deposit on application, 10s. per share. Payment on allotment, 10s. per share.
Calls of £1 per share, at intervals of not less than two months.

CHAIRMAN—Mr. BERNARD GILPIN (William Gilpin, Sen., and Co., Edge Tool Manufacturers), Wedges Mills, Cannock.
Mr. EDMUND BOUGHTON, Jun. (Messrs. E. Boughton and Son, Iron and Metal Merchants), Gloucester and Birmingham.
Mr. WILLIAM FIELD (Messrs. Brassey and Field, Contractors), Shrowsbury.
Mr. JOHN N. BEOWN, Director of the Gloucester Wagon Company, Handsworth

Mr. JOHN N. BROWN, Director of the Gloncester Wagon Company, Handsworth Birmingham.

Mr. CHARLES SAMUEL HAWKES, Merchant, Birmingham.

Mr. THOS. VAUGHAN MORGAN (Patent Plumbago Crucible Company), Battersee Works, London.

Mr. JOHN BREARLY PAYN, Director of the Birmingham Banking Company, Bir Mr. CHARLES T. PARSONS (Crawley and Parsons, Metal Merchants), Birmingham Bonking Company, and its branches at Leeds, Huddersfield, and Newcastle-upon-Tyrn Sollicity, Sollicity, Sollicity, Mr. James Growdy, 17, Serjeant's-line, Fleet-street, London.

Messrs, Ryland and Martineau, Birmingham.

AUDITORS—Messrs, Coleman, Turquand, Youngs, and Co., public accountants, 16, Tokenbouse-yard, London.

CONSULTING ENGINEER.

Robert Charles May, C.E., F.R.A.S., 3, Great George-street, Westminster.

SEGRETARY—Mr. Henry Howell, Birmingham.

LONDON SEGRETARY (pro tem.)—Mr. J. Sloard Rutter.

27, MOORGATE STREET, LONDON; 29, WATERLOO STREET, BIRMINGHAM

mpany has been formed to manufacture files by machinery in lieu of hereby the cost will be materially reduced and the quality improved: it the experience of similar undertakings in successful operation in Fra

founded on the experience of similar undertakings in successful operation in France and Belgium.

Detailed prospectuses and forms of application for shares may be had at the office of the company, 27, Moorgate-street, London, and 29, Waterico-street, Birmingham; the bankers of the company; and also of the following brokers:—The Members of the Birmingham Stock Exchange, Mr. AMUEL FERNIBUGE, Manchester; Mr. RICHAND WITHERS, Liverpool; Messrs, Join Watson and Son, Sheffield; Mr. JONATHAN DREWEY, NEWGASIG-On-Tyne; Mr. W. H. GREEN, Gloucester; Mr. G. S. BERTANT, Bristol; Mr. GEORGE RIDSDALE, Albion-place, Leeds; Messrs. AITKEN and MACKENZIE, Glasgow.

THE PATENT FILE COMPANY
(LIMITED).

NOTICE.—The Directors will PROCEED to an ALLOTMENT on the 30th inst.
Applications for the remaining shares to be made before that date.

By order of the Board,

HENRY HOWELL, Sec. 4.

29, Waterico-street, Birmingham, September 10, 1863.

THE NEW CONCORD SILVER, LEAD, AND COPPER MINING COMPANY (LIMITED).
Incorporated under the Companies Act, 1862.
Capital £30,000, in 10,000 shares of £3 each. Deposit on application 10s. per share, and payment on allotment £1.

BANKERS—The City Bank, Threadneedle-street.
BROKER—Alfred Bingham, Esq., 1, Copthall Chambers, E.C.
SECRETARY—M. H. Brock.
OFFICES,—11, TOKENHOUSE YARD, LOTHBURY, E.C.

ABRIDGED PROSPECTUS

This company proposes to purchase the freenoid estate of Wonwood, near Tavistock, Devon, consisting of 100 acres, and including the valuable lead and copper mine known as Wheal Concord.

This mine was worked many years ago, and £24,000 worth of lead ore obtained from shallow levels, when it was stopped in consequence of litigation between the company and the fresholder. It is now being worked on a small scale very successfully. A provisional contract has been made for the purchase of the entire freehold, with all its mineral, and the plant of the mine, for £16,000, of which the vendors receive £7000 in paid-up shares.

Samples of the ore can be seen at the office, 11, Tokenhouse-yard, and prospectuses and forms of application for shares, with the surveyors' reports, may be obtained also of the bankers and broker of the company.

Should no allotment of shares be made, all deposits will be returned.

JAMES H. COCK, MINE SHAREBROKER AND DEALER, REDRUTH. CORNWALL.

J. H. Cock, having had 10 years experience in the mining market, and being thoroughly acquainted with mines and their management, is in a position to advise or do business on the most advantageous terms. Cash or time bargains promptly attended to.

MANCHESTER.

MR. W. HANNAM, MINING, SLATE QUARRYING, AND GENERAL SHAREBROKER.
OFFICES.

ROYAL INSURANCE BUILDINGS, KING STREET, MANCHESTER.
SHARES BOUGHT and SOLD at current market prices, on usual commission. Reliable advice and information given on all investments. A Monthly Circular, recommending first-class dividend and progressive mines, also shares in two or three vient stock companies of undoubted value, may be had on application.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE NANGILES MINE.

1. Jorey and Others, dated the 16th day of July last, By Public Auction, at the Registrar's Office, Truro, on Wednesday, the 23d day of September inst., at Tweive

o'clock at noon precisely,
2 (1094ths) SHARES af the defendant John Dower; and
10 (1094ths) SHARES of the defendant William Gundry Powning,
Of and in the said MINE. JOSEPH ROBERTS, Plaintiff's Solicitor, Truro.
Entad Registrar's Office, Truro, September 9, 1863.

VALUABLE MACHINERY AND MINE MATERIALS FOR SALE. VALUABLE MACHINERY AND MINE MATERIALS FOR SALE.

M. R. BAKER is instructed to SELL, BY AUCTION, at the NORTH TRELAWNY MINE, in the parish of Quitheock, in the county of formwall, on Friday, the 18th day of Sept. inst., all the MACHINERY and MATE-IALS on the above mine, viz.:—

A 24 in. rotary STEAM ENGINE, 8 ft. stroke, with wronght-iron fly-wheel, shaft, at sweep rod. BOILER, 12 tons.

Balance bob, with gudgeon and brasses complete.

1 logzing bob, with flat-rods, caps, and

2 8 in. matchings.

complete.
1 logging bob, with flat-rods, caps, and plates. on whim cage, with drawing gear.

63 9 in. pumps.

1 ditto plunger pole, 91/4 ft. long.
2 10 in. H pieces.
2 ditto windhores.

2 8 in. plunger poles, with stuffing box and glands.

2 8 in. warkings.
2 8 in. matchings.
1 8½ in. working 10½ ft. long.
1 9 in. main rod, 9 fms. in length, with caps, cutter, &c.
About 50 fms. of 7 in. rods.
6 6 in. rod plates.
6 5½ in. ditto.
12 5 in. ditto.
90 fms. shaft ladders.
8 arm capstan, with oak axle.
8½ in. capstan rope, about 120 fms. 1 7 in. ditto ditto.
1 8 in. sinking windbore,
2 8 in. flat bottom ditto.
Shears, 10 fms. high, with pulleys, bras
120 fms. of % in. chain, large quantity of 2 8 in flat bottom ditto.

Shears, 10 fms. high, with pulleys, brasses, &c.: puppet heads, pulley and brass 120 fms. of % in. chain, large quantity of % and other chain, skip, landing wago tram wagons, shaft gig, 90 fms. of goldes, 3 underground cisterns with bearers, at 60 fms. of air pipes, 20 fms. of 10 in. launders, dressing shed, 4 ligging hutches flooring, wheel-barrows, sieves, 2 beams, scales and weights, 4 tons of railway is 40 fms. of 1½ in. bucket rods, crusher with 2 ft. rolls, 2 sets of blocks, 10 dozen of pins, flange pins and rings, buckets, clacks, and seating, 42 in. amithe bellows, an quantity of smiths' tools, new and old from, steel, carpenters' bench, screw stock, and plates, quantity of miners' tools, 150 ft. of new timber, old timber, flooring, a skitchen stove, and the count-house furniture, consisting of tables, chairs, forms, &c. Refreshments will be provided at Tweive o'clock, and the sale commence punctual tone P.M.

References will be possible as the different articles.

The captain on the mine will show the different articles.

The mine is situate shout two miles from the Menheniot Railway station, on the Cowali line.—Wadeland, Liskeard, September 1, 1863.

DERBYSHIRE.
TO RAILWAY CONTRACTORS, COLLIERY PROPRIETORS, QUARRY MASTERS, and OTHER PARTIES REQUIRING PLANT, DRAUGHT HORSES, &c.
ONE HUNDRED AND FIFTY WAGONS, THREE HUNDRED TONS of excellent WAGON RAILS, STEAM ENGINES, MORTAR MILLS, POWERFUL CRANES, CRABS, SHEAR LEGS, NINE DRAUGHT HORSES, CARTS, &c.

WAGON RAILS, STEAM ENGINES, MORTAR MILLS, POWERFUL CRANES, CRABS, SHEAR LEGS, NINE DRAUGHT HORSES, CARTS, &c.

MESSRS. WILLIAM PEARSON AND SON beg to announce that they are favoured with instructions from Mr. THOMAS STORE, to SELL, BY AUCTION, on Monday, September 21, 1863, and following days, at Eleven o'clock in the morning each day, at Wheley Bridge, Chapel-ie-Frith, and Buxton, The RAILWAY CONTRACTOR'S PLANT, and MATERIALS, which has been used on his contract on the Buxton extension line of railway. Consisting of about ONE HUNDRED AND FIFTY capital EARTH and BALLAST WAGONS, from TWO to THREE HUNDRED TONS of FLAT BOTTOMED CONTRACTORS' RAILS, about ONE at large quantity of angle rails for a tramway, together with the wood iron-bound boxes; several tons of dogs and nails, from FIVE to SIX THOUSAND SLEEPERS, a very large quantity of earth, kiln, and asblar barrows; fourteen carts, two timber carriages, nine powerful, active, and remarkably useful draught borses, from five years old, averaging about sixteen hands in height, and in capital working condition; cart gears, twenty two pairs of loose wagon wheels and axies, platelayers' tracks, handcarts, store trucks, powerful delf cranes, well fitted up travelling cranes; pile engines and tackle beionging them; eight pairs of shear legs, windiasses, chains, and guy ropes; a lot of very handy crabs, with wood and iron frames; mortar mills, both for horse and steam power; two steam-engines of about four and twelve horses' power; steam boller; iron and wood water-pumps; several tons of wagon couplings, and strong chains, for various purposes; twenty two steam-engines of about four and twelve horses' power; steam boller; iron and wood water-pumps; several tons of wagon couplings, and strong chains, for various purposes; twenty wrought fron tubs for winding water, equal to new; smithy tools; ladders; fire grates, for collery brows of night use; large cisters, fron pleps, &c.

Catalogues will be ready on Saturday, Spt. 12; apply at the place of sale; they may also be had

TO CAPITALISTS.

CHARLES BROUGH WILL SELL, BY AUCTION MR. CHARLES BROUGH WILL SELLI, DI ACCIANA, and the Queen's Head Hotel, Pilgrim-street, Newcastie-spon-Type, on Treaday, the 29th September, at One for Two o'clock precisely, ONE SEVENTH SHARE of the SEATON DELAYAL COLLERY, in the county of NORTHUMBERLAND.
This colliery is situated in the very centre of the great steam coal field of Northumberiand, seven miles from the Northumberiand Dock, on the River Tyne, and about two miles from the port of Blyth, with both of which shipping places it is connected by railway. The celebrated steam coal, known as "Hasting's Hartley," is the produce of Seaton Delayal Colliery, and the present vend is about 50,000 chaldrons per annum.
Further particulars may be obtained of Mr. T. G. HUBER, Backworth Colliery, New-

BACKWELL PARK FARM, BACKWELL, SOMERSETSHIRE.

VALUABLE FREEHOLD ESTATE, with the rich seams of COAL, IRONSTONE, and OTHER MINERALS under it.

MESSRS. FARGUS WILL SELL BY AUCTION, at their sale rooms, No. 4, Clare-street, Bristol, on Thursday, October 8, 1863, at One for Two o'clock precisely (in One or Four Lots, as may be agreed upon), all that most DESIRABLE and COMPACT FREEDIOLD ESTATE, called BACKWELL PARK FARM, situate at BACKWELL, in the county of SOMERBET, about seven miles from Bristol, com-

A substantial FARM-HOUSE, with barns, barion, stabling, and other agricultural buildings; and 128 a. 2 n. 1 r. of fine PASTURE and ARABLE LAND, now in the occupation of Mr. William White, whose tenancy will expire at Michaelmas, 1863; together, also, with the valuable beds of COAL, RONSTONE, and OTHER MINE-RALS which lie under the estate and under that part of the Eristol and Exeter Railway by which the property is intersected. This capital estate, the greater part of which consists of fine old meadow land, is situated in a ring fence, except where intersected by the railway; it is bounded on one side by the road leading from Backwell to Nalisea and Cleveland; the house and about 168 acres lie on the north side of the railway, and about 20 acres on the south side. The whole is freshold, with the exception of a very small strip on the west side of the farm, containing 37 perches, which is held on lease for lives.

The land tax on the estate is £10 2s. 8d. per annum, and the tithe rent charge 10s. per annum.

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uniars and plans of the estate are in preparation, and may st
CLATTON, COOKSON, and WAINWRIGHT, solicitors, 6, New-square
t or of Messrs. FARGUS, 4, Clare-street, Bristol.

VALENCIA SLATE SLAB QUARRIES, COUNTY KERRY, IRELAND.

MESSRS. FULLER AND HORSEY are instructed to SELL,
BY AUCTION, at the Anction Mart, London, on Wednesday, October 28, at
Twelve, in One Lot (unless an acceptable offer be previously made by private contract),
the EXEENSIVE QUARRIES and MILLS of the VALENCIA SLATE SLAB
COMPANY, situate in the island of Valencia, County Kerry, Ireland. The works have
been carried on by the present company for about 14 years, and a very large outlay has
been made in opening the quarries, and in erecting the mills and the requisite machinery.
The quarries are situate on the side of a mountain, about 420 ft. above the sas levy,
and an opening has been made for working about 120 ft. wide, running into the mountain to about the same depth, uncovering a succession of pistforms of slates of various
widths. The slate rock lies most conveniently for working, at an angle of about 35°,
and has a regular cleavage. The slabs are severed by wedges instead of by blasting,
thus avoiding the large amount of waste occasioned by the latter process. The roof of
the quarry its self-sustained, and its perfectly secure.

The quality of the slabs is now well known and appreciated, and are taken in large
quantities by the principal merchants in London and elsewhere. They take a beautiful
and permanent polish, are particularly valuable for enamelling, and unaffected injuriously
by furnace heat, and are raised in larger sizes than from any-other quarry. The waste
from the slab blocks is made into roofing slates, for which there is ample local demand.

The present yield is about 2000 tons of slate shabs annually, but by a comparatively
small outlay in an extension of the workings this quantity may be doubled, the machinery at the mills being equal to prepare that quantity may be doubled, the machinery at the mills being qual to prepare that quantity, and the demand at the present time being in excess of the capabilities of supply.

The mills are situate about 294 miles from the quarries, are connect

transit. The mills are most advantageously placed, seing immediately configuous to the pier, at which vessels of 300 tons burden can load alongside, and there are no pier dues nor wharfage payable. The harbour of Valencia is both safe and commodious, and freights to London are about the same as from the North Wales ports.

The buildings are well arranged, and substantially erected. They are fitted with sawing and plasning machinery of the best description, fitted by Blyth, of Limehouse; and there are overhead craims, tramralls, and every appliance for saving manual labour. There are also 10 dwelling houses, manager's residence, and about 35 acres of farm land.

There is a plentiful supply of water for the purposes of the mills from a large open reservoir. The quarries and works are held by lease from the Knight of Kerry on easy terms. The present company have expended upwards of 40,000. upon the property. They have succeeded in establishing the reputation of, and s market for, the slabs, and have thoroughly proved the existence and uniform character of the slate, and the extent to which movern machinery for the preparation of the slate for market, and it is confidently believed that the work size now in that state that, in the hands of two or three individuals, very profitable results may be anticipated.

The works may be viewed by cards only, which, with further particulars, may be had of Messrs. Palakse, NETTLESHIP, and ELAND, solicitors, 4, Tarlaigar-equare, W.C.; at the Messry, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Fullers and Housey, 13, Billiter-street, London; and of Messrs. Full

MESSES. W. DERRY AND CO., MINING MATERIAL MERCHANTS, ST. AUSTELL, respectfully inform the mining public that they have constantly ON SALE EVERY DESCRIPTION of MINING PLANT, in STEAM ENGINES, pitwork, and dressing appliances, which they are prepared to offer on very advantageous terms, and such as will especially commend themselves to the projectors of new undertakings.—Applications to be addressed as above, or to the engineer of the company, Mr. W. H. GRAY, St. Austell,

Dated St, Austell, August 19, 1869.

RHONDDA VALLEY, GLAMORGANSHIRE.

MR. H. W. HARRIS WILL SELL, BY AUCTION, at the M. H. W. HARRIS WILL SELL, BY AUCTION, at the New Inn, Pont-y-Pridd, on Monday, the 28th day of September, at Three o'clock in the afternoon, subject to such conditions as shall be then produced, all that colliery known has the BWLLFA COLLIERY, altuate at YSTRAD, RHONDDA VALLEY, GLAMORGANSHIRE.

This colliery is on the Rhondda Fawr branch of the Taff Vale Raliway, is distant from the port of Cardiff 20 miles, and is in direct communication with the narrow guage system of the West Midland and other rallways.

The coal field has an acreage of 452 acres, or nearly, held under the Countess of Dunraven, for a term of 60 years, from the 29th of September, 182, at a dead rent of £430, payable half-yearly, and at the following royalties:—Nos. 1 and 2, Rhondda vein, 64, per ton (2620 lbs.); No. 3, ditto, 84, per ton.

One level has been opened upon the property. The vein of coal now worked has a thickness of 3 ft. of first-rate quality coal, and lies at an inclination of about 1½ inch in the yard.

in the yard.

There are blacksmiths' shop, weigh-house, machine, screen, good siding action, and everything necessary for the working of the colliery. The whole now in excellent condition for working and sending away a regular daily 100 tons.

100 tons.

The horses, trams, and plant of the colliery, according to a list produced at the auction, to be taken at a valuation.

For further particulars, apply to Tuomas Cann, Esq., on the premises, Ystrad, Rhondds; R.J. Hott.Tusk, Esq., solicitor, Old Town Hall, Aberdare; or to the auctioneer, 140, Highstreet, Merthyr Tydvil.—Auctioneer's Office, September 1, 1863.

COUNTY OF LANARK.
UPSET PRICE REDUCED TO £25,000.

COUNTY OF LANARK.

UPSET PRICE REDUCED TO £25,000.

THE DUNDYVAN IRÔNWORKS, AND OTHER PROPERTIES, SITUATED NEAR COATBRIDGE, FOR SALE.—There will be exposed to SALE, within the Faculty Hall, Glasgow, on Wednesday, the 30th day of September, 1985, at Two o'clock aftarnoon (unless previously disposed of by private burgain), the DUNDYVAN PIG and BAR 180NWORKS, comprising—
1.—The PIG 180NWORKS, comsisting of EIGHT BLAST FURNACES, with all the usual working conveniences, counting-house, warehouse, stables, &c.
2.—The BAR 180NWORKS, consisting of FORTY-FOUR PUDDLING FURNACES, with all the usual working conveniences, capable of turning out 350 tons of finished from weekly, consisting of plates, rails, and bars in great variety.
3.—ONE HUBBRED AND FIFTY-FOUR WORKMEN'S DWELLINGS, known by the name of "Long Row," "English Square," and "Stone Row."
4.—The LANDS of DYKE, with the FARM BUILDINGS, STEAM ENGINE, TRRASHING MILL, RAILWAY, &c., thereon.
The above subjects extend to above 35 acres imperial, and the minerals therein will be included, in so far as belonging to the exposers, with the machinery, fittings, and fixed plant at Dundyvan Pit.
5.—The MINERALS HELD IN LEASE, consisting of DRUMPELLER, SOUTER-HOUSE, and DALZIEL COAL, and WHIFFLAT and HOLEHILL IRONSTONE, with the whole MACHINERY, FITTINGS, RAILWAYS, and FIXED PLANT of every kind attached thereto.
The perchaser will be entitled to a lease, on favourable terms, of the valuable ironstone in the estate of Arden, extending to 1100 acres, or thereby, and to the option of taking at a valuation the moveable stock and utensils connected with the mines and tronworks; and also the farm leases of Whiffiat and Souterhouse farms, including implements and utensils, all as per Inventories.
For further particulars, apply to Mesers. MINERS, and BARK, writers, Glasgow; Mesers, MACKENSER and MOORE, mining engineers there; Mesers, MEUNINGEN, and LINDERAY, WS., Edinburgh; Mesers. MORRIER, and KURKWOOD, writers there, the Jast of whom will exhibit the titles and articles of rouy.

TIN SETT FOR SALE, IN THE LANIVET DISTRICT .-The set contains several lodes and branches, and a large quantity of streamen's se, which will all pay for stamping, and leave good profits, as there is water-power lable.—Further particulars may be known by applying to "S. H.," Post-office, be, St. Austell. If not sold, the owner would treat with any gentleman to form a ny for working the same.

MINING MATERIALS FOR SALE.—A superior 21 in. cylinder PUMPING ENGINE, with BOILER 8½ tons, balance-bob, brasses, bearen, and connection rod complete; an 8 armed capetan; a 90 fm. 10 in. capetan rope, scarcely used; WATER WHEEL, 18 ft. by 3 ft., with cast-iron sockets, &c., and a 6 heads stamps axie attached; 40 fms. launders, drawing machine, a 9 in. plunger pole and case, complete; 6 in., 7 in., and 9, in. pumpe; workings and doors, and windbores; pulley wheels, tram iron, shaft ladders, &c.—Apply to Capt. W. Spargo, at East Collacombe Mine, near Taylstock.

WILLIAM MATHEWS, ENGINEER, TAVISTOCK, has FOR SALE:—ONE 30 in. CORNISH PUMPING ENGINE, with BOILER 9 tons; ONE 14 in. HORIZONTAL WHIM ENGINE and cage, with BOILER 4½ tons; TWO 10 horse FORTABLE ENGINES, for winding or pumping; ONE CORNISH CRUSHER; ONE 30 ft. diameter WATER WHEEL, 9 ft. breast, iron axle, sockets and rings; 60 fms. of 3 in. flat-rods, with pulleys.

ON SALE, an excellent HIGH PRESSURE BEAM ENGINE, 40 horse power, with fly-wheel 20 ft. diameter, and 6 tons weight. Diameter of cylinder 20 in. Length of stroke, 4 ft. 4 in. Nearly new.

ON SALE, SECOND HAND, TWO CYLINDRICAL HIGH PRESSURE STEAM BOILERS, 18 ft. long $\times \delta$ ft. diameter; ONE ditto ditto, 22 ft. long $\times \delta$ ft. diameter. Mountings for the above boilers complete, with fire-doors, frame, and bars. In first-rate condition.

ON SALE, WINDING MACHINERY, suitable to a colliery or ber mine, with break, friction coupling, &c., all complete. Nearly new, having been work for a short time only.

ON SALE, about ONE HUNDRED YARDS of 6 in. PUMPS, ith rod, connections, cast-iron bobs, and pumping gear complete.—Apply to "S. F.," INING JOURNAL office, 26, Fleet-street, London, E.C. FOR SALE, a NEW TURBINE WATER WHEEL, horizontal

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Lutilises from 90 to 92 per cent. of the motive power.

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J. it recipies and expense of installation is 75 per cent. less than the usual pumps employer for mining purposes.

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J.—it caughes a very collect of a smaller diameter than its tube.

J.—it causes with the water, and without the slightest injury to the apparatus, sand, mud, wood, stone, and every object of a smaller diameter than its tube.

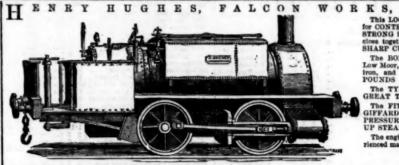
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A mining pump can be seen daily at work, at Wheal Concord Mine, South Sydenham, Devon, near Tavistock; and a shipping pump at Woodside Graving Dock Company (Limited), Birkenhead, near Liverpool.

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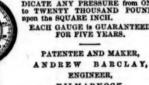
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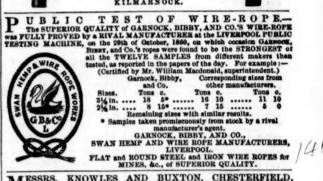
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THE DAILY CHRONICLE AND NORTHERN COUNTIES ADVERTISER.
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195, High-street, Sunderland.

| MIII WINING GOVE | 1 | PROGRESSIVE | MINES | Shares, Mines, | Prid Laufe Brod |
|--|---|--|--|--|--|
| THE MINING SHARE LIST | 700 Aberdovey | y (sillead), Merio., 1 10 | . Last Pr. Bus. done. Last Call. | 1000 North Fortescue (copper) 2500 North Frances (cop.), [S.E.]. | 14 3 6 And |
| DIVIDEND MINES. | 12000 Abergrwd 12000 Anna Mari | (lead), Cardigan 0 10 in (ld., cp., gold) [L.] I 0 | 0 Fully paid. | 1000 N. Gt. Work, Breage [L. £3] 16000 N. Hallenbeagle [8000 £1pd, 80 2000 North Jane (tin, silver-lead). 6000 North Kit Hill (tin, copper) 6000 North [answ/(lead) laige [Man | 2 5 0. — Apr 2 6 0. — Apr 60 8s. 6d. pd.] July |
| Blaces. Mines. Paid. Last Pr. Business. Dividends Per Share. Last Paid. 1000 Alderlay Edge (Cheshire) [L.]* | 400 Baldwin I | and Smalt. [L. £1] 0 15. £2] | 0 — | 6000 North Fate (tin, silver-lead). 6000 North Kit Hill (tin, copper) 6000 North Laxey(lead) Isle of Man 2000 N. Levant (tin, con.). St. Just | 0 2 6 — |
| 4000 Redtord United (copper), Tavistocky 2 6 8 | 4000 Bedford Co 2000 Berebayer | onsols (copper) 2 6 | 0 — Aug. 1860 0 — Feb. 1863 | 2000 N. Levant (tin, cop.), St. Just 20000 N.Minera (ld.) [15000 £1 pd.,5 4000 North Fhunix (copper) | 7 8 0 |
| 4900 Bedford United (copper), Tavistockt, 2 6 8 . | 400 Billins [L. 2280 Boscundle | .£30] [200 £20 pd.] 30 0 (tin,ep.),St.Austell 7 10 | 0 — July, 1868 0 — Sept. 1862 | 20000 N.Minera (id.) [15000 £1 pd., 4000 North Fhonix (copper) 6400 No. Pool (tin & cop., 1llogan 700 N. Ronkeav(cop.,), Camborna 1034 North Rosewarne (copper) 2000 N. Shepherds (sil., id.,), Kewlyn 5000 N. Treiether (sil., cp.,), Fadsion 6000 N. Wh. Basset (cop., tin) [S. E.] 1024 North Wheal Busy (cop., &c.) 6510 North Wheal Crofty (S. E.] 4500 North Wh. E. Miccott (St. Ive) 4500 North Wh. 2000 N. Honix Cott (S. E.) 4500 North Wh. 2000 North Wh. | 0 10 0 — Aug 22 5 0 26 July 1 0 0 — July |
| 3000 Chiverton (isad), Perranabuloe | 5000 Bottle Hill 12000 Brea Con. (| tin), St. Ives [L.30s.] 1 10 | 0 — Dec. 1880 0 — April, 1868 6 — Mar. 1863 | 2000 N. Shepherds (silid.), Newlyn 5000 N. Trelether (sil., cp.), Padatow 6000 N. Wh. Basset (cop., tin) (S. E. 1 | 0 10 0 1 July 1 0 0 Aug |
| 12000 Copper Miners of England | 4000 British (til 4000 Brookwood 5120 Brynambo | n & cop.),[L. £1 10s.] © 12 d (cop.) Ashburton 1 12 or(ld.),Cardi.[L.£5] 2 3 | 6 — No call. 6 — Nov. 1869 | 1024 North Wheal Busy (cop., &c.) 5610 North Wheal Crofty [S.E.] 4800 North Wh. Ludcott (St. Iya) | 10 7 5 — July 2 6 6 3%3% 3% Aug |
| ## 12 O. 0 4 0—July, 1863 ## 10 or m Erfin (lead) Cardiganshire[L.] 7 10 0 20 918 0 0 10 0 0 15 0—July, 1863 | 500 Brynford E 500 Bryn Gwid 1861 Bryntail (1 | Hall (lead), Flint 25 0 og (lead), Flint 8 0 lead), Llanidleas 7 17 | 0 April, 1802 | 9144 N. Wh. Robert, Samp. Spiney | 3 0 5 15s 16 36 Ann |
| 40000 Ditto (stock) | 6380 Buller and 1200 Burra Burra 2200 Burran (les | Bollowall, 8t. Just 6 (tin) Piympton . 1 7 (tin),8t. ives [L. 20s,] 1 10 n ds cop., [E. £1 0s.] 2 1 0 n ds cop., [E. £1 0s.] 2 3 d (cop.) Ashburton 1 2 3 Hall (lead), Finit 8 6 og (lead), Finit 8 6 lead), Lindidoss . 7 17 lbasset Unit. (cop.) 4 17 a (cop.), Kenwyn . 2 10 ad, calamine) [L. £5] 8 o onsols (cop.), Calst. 1 17 k, Wendron (tin) . 23 16 Consols (copper). 18 0 | 6 — | 4108 North Wheal Trelawny (lead) 4000 N. Wrey (id.), 85. Ive [L.£2]. 4096 Okel Tor (cop.), Calstock 10000 O. Wn. Noptune (600.62 10s.pc 800 Pant-y-pydew (lead) 8465 Pedn-an-drea United (tin) 5000 Pendeen Consols, 8t., Just 1000 Pengenna (id., ail.), 8t. Kew. | 6 6 6 Sept 1.,4000 10s.pd.] Nev |
| 385 Dolcach (copper), Redruth [S.E.] * 1 0 0 . 365 . 348 . 365 . 0 18 0 . 0 1 6 . 348 . 383 . 384 . 385 . 0 18 0 . 0 1 6 . 385 . 385 . 0 18 0 . 0 1 6 . 385 . 385 . 0 18 0 . 0 1 6 . 385 . | 12000 Calstock Co 915 Calvadnac | onsols (cop.), Calst. 1 17 k, Wendron (tin) 23 16 | 6 614 6 614 Aug. 1863 | 1000 Pant-y-pydew (lead) | 4 17 6 — 8ept 3 16 6 — Aug |
| 519 East Basset (cop.), Redruth [S.E.]*. 29 10 0. 80 .80 8214 .111 0 0 2 0 0-July, 1863 6144 East Caradon (copper), St. Cleer [S.E.] 2 14 6 29 .2814 29 .7 7 6 0 12 6-July, 1863 00 East Darron (lead), Cardionables* 30 0.0 .80 8214 . | 4600 Camborne 75000 Cambrian | Consols (copper) 18 0 Vean & Wh. Francis 8 19 Consolid.(gd.)[L.£2] 1 0 ons. (cop.), St. Cleer 27 12 | 0 —June, 1863 4 —June, 1863 0 —Aug. 1862 | 5000 Pendeen Consols, St. Just 1000 Pengenna (ld.,sil.), St. Kew. 5000 Penhalls (tin), St. Ann's | 4 1 0 . 7 . 6% 6% . Aug 5 0 0 July 2 0 0 July |
| 128 East Pool (tin, copper), Pool, Illogan. 24 8 0. 340 0 0. 6 0 0 Aug. 1863 2800 Foxdale (lead), Isle of Man [L.] 25 0 0. - - - 0 0. | 4046 Caradon H 6000 Caradon U | 703. (cop.), 87. Cleer 27 12 [11] (copper) 2 1 [11] (copper) 0 10 [ale (copper) 5 0 [consols(lead & cop.) — | 0 — 12 13Sept. 1863 6 —July, 1862 0 —Sept. 1862 | 6000 Penrait (sil. ld.), Merion.[L.] 200 Pentre Lygan (lead), [L. £30] 400 Phœnix (copper and tin) | 2 8 0 ab |
| | 10000 Caradon V 10000 Cardigan C 2580 Carmarthe | Sonsols(lead & cop.) — on United (lead) 5 0 | 0 —July, 1862 0 —Fully paid. | 6000 Polhigey Moor (tin), Wendron 6400 Prideaux Wood (tin, cop.) 12800 Prince of Wales (tin), Calatock | 1 13 0 — |
| 198 | 4370 Carnewas (3000 Carn Vivis | Jonsois(lead & cop.) — on United (lead) 5 0 borne (copper) 0 16 (ld.,cop.), Mawgan 1 8 an (tin, cop.,lead) 2 1 (tin), St. Just 4 5 3200 £2½ pd.,16800 £1 pd 1. Irelend [1] 1 0 | 0 — July, 1863 0 — Nov. 1862 6 — Nov. 1861 | 1024 Prosper and Mitchell, Lanivat 6000 ProsperUni. (tin.cp.), 8t. Hilary 11789 Redmoor(cop., tin), Callington | 7 1 6 14 % Mar. |
| 800 Minera Mining Co.[L.],(ld.), Wrexham 25 0 0 | 2048 Carnyorth 20000 Carysfort [10000 Castleward | (tin), St. Just 4 5 3200 £2½ pd., 16800 £1 pd 1. Ireland [L.] | 0 —June, 1863 —Fully paid. | 5000 Rhafna (lead) [L. £1] 2500 Rhoswydol and Bacheiddon | 0 6 8 – July 12 5 0 – |
| 1000 Mining Co. of Ireland (cop., 1884, coal) 7 0 0. 1834 15 17 7. 0 11 2—3an. 1863 460 Mount Pleasant (lead), Mold | 2500 Cefn Cilcer 200 Cefn Cwm 2500 Central Mi | I, Ireland [L.] 1 0 n (ld.), Flint [L. £5] 2 3 Brwyno (lead) 33 0 inera (lead) [L. £5] 2 1 Untd., Perranuthnoe 4 1 | 0 —Aug. 1863 0 —July, 1863 0 —June, 1863 | 4026 Rosewarne Consols (copper) 3848 Rosewarne United (cp., tin) | 3 19 0 2 136 136 Nor. |
| 40 Mount Pleasant (lead), Mold | 4000 Charlotte C | Untd., Perranuthnos 4 1., Ponterwyd [L.£3] 1 14 | 8 — | 2000 Scorrier Con.(tin,cp.),St. Agnes 12500 Silver Moun. (lead) [L. £2]. | 4 13 6 2 2% May, 2 0 0 1/4 1 Fully |
| 07 Parys Mines (copper), Anglesey [L.]. 50 0 0 — 72 10 0 10 0 0—July, 1863 | 3565 Coed Maw 16000 Coolartra a | .,Ponterwyd [L.£3] 1 14 fentworth (tin, cp.) 31 5 r Pool (lead) [L.] 5 0 and Bond, Ireland. 1 0 (cop., sulph.) [L.] 1 0 tin) [7000 £2 paid, 3000 10 | 0. — | 1000 Fencena (di.,sil.), St. Kew. 5000 Pennalis (tin), St. Ann's 6000 Pennalis (tin), St. Ann's 6000 Pennalis (tin), St. Ann's 6000 Pennalis (sil.), Merion, [L.] 200 Pentre Lygan (lead), [L. £30] 400 Phonix (copper and tin) 6000 Polhigey Moor (tin), Wendron 6400 Prideaux Wood (tin, cop.). 12800 Prince of Wales (tin), Calstock 1024 Prosper and Mitchell, Lanivat 6000 Prosper Uni. (tin, cp.), St. Hilary 11789 Redmoor (cop.,tin), Callington 5000 Rhafna (lead) [L. £1] 5400 Rhoswydol and Bachelddon. 7400 Roskearnoweth (copper). 7400 Roskearnoweth (copper) 7400 Scorrier Con. (tin,cp.), St. Agnes 12500 Silver Moun. (lead) [L. £2] 100 Silver Rake (lead) [L. £2] 100 Silver Rake (lead) [L. £2] 1000 Silver Wood (tin,cp.), [L.£2] 12000 Smith's Wood (tin,cp.), [L.£2] 12000 Smith's Wood (tin,cp.), [L.£2] 12000 Smith's Wood (tin,cp.), [L.£3] 12000 Smith Basset (op.), [dwennap.] 100 South Bryn Gwog (lead) | 7 2 6 Jaly, Jaly, Jaly, Jaly, Jaly, Jaly, Jaly, Fully |
| 0 Oracida (18ad.), Fintanire 0 0 8 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 0 | 10000 Connorree 861 Crane (cop | tin) [7000 £2 paid, 3000 10 per), Camborne 16 10 | 0 — Fully paid. 0s. paid] Oct. 1862 0 — Mar. 1863 | 12000 Sortridge Consols [S.E.] 512 South Basset (cop.), Gwennap i 100 South Bryn Gwiog (lead) 6400 So. Buller & W. Penstruthal. | 0 17 0 8s Juny 15 10 8 — 7 8 Feb. 7 0 0 — 7 8 Feb. |
| 5 Rhosesmor (lead) | 8000 Crookhave 6000 Crowan Co | op.), Tavistock 2 10 n (cop.) [L. £2½]. 1 10 ns. (cop.) [L. £2]. 1 10 | 0 — | 6400 So. Buller & W. Penstruthal. 6000 So. Buller (copper), Gwennap 4096 S. Caradon Wh. Hooper(cop.) | 0 13 0 — Jaly, 0 14 0 14s May, 3 13 0 16s Aug. |
| South Toigus (cop.), Redruth, Cornwall* 8 0 0. 43 . 37½ 40 . 74 10 0. 1 0 0—May, 1863 | 6000 Crowlwin (6000 Cuddra (co) 1800 Cwmbrana | (lead), Llanidloes. 1 10 p., tin), St. Austell 3 15 (lead) [L. £3] 2 10 | 0 — No call. 6 — June, 1863 0 — May, 1863 | 5400 So. Buller (copper), Gwennap 6000 So. Buller (copper), Gwennap 4096 S. Caradon Wh. Hooper(cop.) 6000 So. Carn Brea (cop.) [S.E.] 6138 S. Condurrow (tin, cp.), Camb. 2238 Sou. Crenver (cop.), Crowan. 6000 South Darron (id.) [L. £3½] 6000 S. Dolcoath & Carnarthen Con. 6000 S. Dolcoath & Carnarthen Con. | 6 18 0 |
| 0 6 0. 0 6 0—June, 1862 0 8t. Ives Consols (tin), St. Ivest 8 0 0 | 2000 Dale, N. Sta 2000 Deep Level 12000 Devon Univ | on (copper) [L.] . 1 0 | 6d.pd.]Sept. 1862 0Feb. 1862 0 | 6000 South Darren (Id.) [L. £3½] 6000 S. Dolcoath & Carnarthon Con. 5000 S. Foxdale(Id.) I. of Man [L. £5] | 2 18 6 |
| Trumpet Consols (tin), near Helston. 11 10 0. 20½. 20 20½ . 13 8 6. 1 0 0—Aug. 1863 Twelve Aposttes Amsl. (id.), Wrexham, 1 0 0 | 4566 Devon Who 20000 Dolfrw-y-n 1000 Durle (110) | eal Buller (copper) 4 10 tog (gold) [L. £1]. 0 10 | 0 —Aug. 1862 0 —Sopt. 1862 0 —Oct. 1862 | 2000 South Geriand (copper) | 3 15 0 |
| Vigra and Clogau (copper) [L. £8] 215 0 30 35 4 12 6 1 0 0—Oct. 1862 West Basset (copper), Illogau [S. E.]. 1 10 0 24 2 0 0 5 0—July, 1863 West Carodon (cop.), Liskeard [S. E.] 5 0 0 25 20 22 101 1 3 0 10 0—Oct. 1862 | 5000 Dulta (tin) 1000 Eaglebrook | tin) [7000 £2 paid, 3000 10 per), Camborne 16 10 op.), Tavistock 2 10 n (cop.) [L. £2]4]. 1 10 n (cop.) [L. £2]4]. 1 10 (lend), Lianidloes 1 10 p., tin), 8t. Austell 2 10 (Lend) [L. £3] 2 10 n (copper) [L.] 1 0 eal Buller (copper) [L.] 1 0 eal Buller (copper) 4 10 log (gold) [L. £1] 0 10 (lend) [L. £2] 1 0 (copper) [L.] 1 0 (cond) [L. £2] 2 (cond) [L. £2 | 0 —Fully paid. 0 —Feb. 1863 0 —Mar. 1863 | 1024 South Herodsfoot | 3 5 0 |
| South Exmouth (1806), Christow 1 0 0 | 4096 East Alfred 1000 East Basset | | | 4096 S. Wh. Retay Mary Tayy, Dy. | 1 7 9 · · · · · · April, |
| Wheal Basset (copper), Illogan* [S.E.] 5 2 6 80 75 80 35 10 0 1 0 0—Aug. 1863 Wheal Basset and Grylls (tin) 7 0 0 31 0 0 0 10 0—July, 1863 | 6000 E. Beam (ti 6000 E. Bottle H 4096 East Brook | t and Grylis (tin) 1 0 in), St. Aus.[L.£2] 1 7 (iii) (tin), Plympton 0 2 wood (copper) 1 7 | 0 —Mar. 1868 6 —Jan. 1963 | 937 So. Wh. Crofty (cop.), Iliogan 1 1024 S. Wh. Ellen (cp.), St. Agnos 1000 South Wh. Kitty (tin), Lelant 6000 So. Wh. Lelsure (tin & cop.). | 9 18 2 — Aug. 1 10 0 — Aug. 0 2 0 — Oct. |
| Wheal Baset and Grylls (tin) 7 0 0 98 50 20 0 0 10 0 0 10 0 12 0 12 0 12 0 1883 Wh. Ludcott and Wray (lead), 85. Ive. 21 0 8 3% 3% 3% 3% 26 1 0 0 10 0 10 0 10 0 11 0 10 0 < | 5000 E. Bronfloy 50000 East Cambr 6000 East Carn B | rd(silld.)Card.[L] 2 0 rian (gold) [L. £1]. 0 10 rea (cop.) Redruth 3 15 | 0 — 0 814 734 8 Feb. 1863 | 1000 South Wh. Ritty (tin), Leiant 6000 So, Wh. Leisure (tin & cop.), 1024 S. Wh. Loveli (tin), Wendron 400 So. Wh. Seton(cop.), Camborne 4 794 Spearne Cons. (tin), St. Just. 792 St. Aubyn and Grylls (cp.,tin) 15000 St. Cuthhest Ld. Smell. FL. 251 | 1 10 7 |
| Wh.Mary Ann (id.), Menheniot [S.E.] † 8 0 0. 12 /2. 12 13 . 35 5 0. 4 0 0 — Mar. 1862 Wheel Owles (tin), 8t. Just, Cornwall 70 0 0. — | 50000 East Chiver 50000 E.Clogau(go 6000 East Dames | | | 40000 St. David's (gold) [L. £2 10s.] | 1 0 0 July, |
| | | Gt. Consols (cop.) 1 9 8 (lead) [L. £5] . 3 0 | 0Jan. 1863 | 4000 St. Day United (tin), Redruth | 2 13 9 Feb |
| Wicklow (copper) [L.], Wicklow 5 0 0 — 46 3 6 1 6 0—Aug. 1863 [* Dividends paid every two months. † Dividends paid every three months.] | 4000 E. Grenville 4000 E. Gunnis L 6145 East Jane (s | e (cop.), Camborne 1 15 ake &S.Bedf.(cp.) 7 3 allld.), Cardinham 1 15 | 0 3¼3% 3%Aug. 1863 6 —April, 1863 Aug. 1863 | 6000 St. Just Consols (tin) [L. £1] 640 Stamp Office (lead), Moid | 0 10 0 |
| MINES WITH DIVIDENDS IN ABEYANCE. | 1024 E. Margaret 6000 East Marths | a [L. £2 10s.] 1 5 | 0 —Jan. 1863 0 —May, 1863 1 —June, 1863 | 1024 St. Ives Wheal Allon (tin) | 0 13 0 — 37 39July, |
| Condurrow(cop.,tin), Camborne | 5610 East Seton (| ne(cp.,tin),Gwin. 2 15 (cop.), Camborne 0 8 | 23421/2 23/4Sept. 1862 | 2000 Trefulack Uni. (tin), St. Enoder 5000 Treloweth (copper), St. Erth. | 8 5 0 — Sept. 1 |
| Fowey Consols (copper), Tywardresth 4 0 0 | 1024 E. Treskerb | y (cop.), Redrath 7 10 | | | |
| Reity Bray (less, copper), Callington. • 15 6 % 6 6 0 2 0—Feb. 1860 Levant (copper, tin), St. Just 2 10 0 1091 0 0 5 0 0—May, 1860 New Birch Tor and Vitifar Cons. (tin). 1 6 6 0 3 6 0 1 0—Sept. 1861 Newtownards Mining Co., Co. Down. 50 0 0 56 0 0 1 0 0—Sept. 1858 | 2048 East Wheal 1906 E. Wh.Lov | tane (tin) Sithney 1 0 (1 Grylls (tin, cop.) 0 10 (1 cell (tin), Wendron 2 13 (1 sell, Tavis. [S.E.] 8 9 (1 cell (tin), Wendron 2 the cell, Tavis. [S.E.] 8 9 (1 cell (tin), Wendron 2 the cell (tin), Wendron 3 the cell (tin), W | 3. — .4¼ 4¾ 4 3¼ 4 Aug. 1863 | 3105 Tresellyn and Scaddick Cons. 5600 Trevenen and Tremenheere. 4096 Treweaths (silld.), Menhen. 3048 Treworlis (tin), Wendron. 2500 Trimley Hall [1250 £1 pd., 1250 4000 Trumpet Unit. (tin), Wendron. | 3 18 10. — |
| Newtown and maining Co., Co. Down. 50 0 0 | 6000 Erwielin (le | Wood Cons. Buckl. 1 1 | — June, 1863 | 800 Tynewydd(silld.),Cardigan. | 0 5 0 Dec./ |
| Wendron Consols (tin), Wendron | 1024 Garlidna Un 1000 Garreg (lead | ntd. (tin), Wendron 14 2 1 d), Flint 5 9 | | 10000 Vale of Towy (lead), Carmar. (4000 Wentnor [L. £21/4] (lead) | 15 6 |
| Wheal Friendship (copper), Devon 50 0 0 | 6000 Gen. Min. C 30000 Glasgow Ca | Co. for Irel. (cop.) 4 0 0 caradon Cons. [L.]. 1 0 0 | | 1024 Tyringaam Consol (17). 10000 Vale of Towy (lead), Carmar, (4000 Wentnor [L. £2_2\) (lead), Carmar, 100000 Welsh Gold, Dolgelly [L.] 3000 West Aifred (copper) [L. £3], 100000 West Beam [L. £1] 100 W. Bryn Gwlog (ld.) [L. £20] | 1 0 0 Fully 1 0 0 Nov |
| Wheal Jane (silver-lead), Kea 3 10 0. 15 13 10 0. 1 0 0—Mar. 1862 Wheal Kitty (tin), Uny Lelant [S.E.] 2 0 6. 11½ 810 0. 0 10 0—April, 1862 Wheal Kitty (tin), St. Agnes 5 4 6. 8½. 8½ 8% 0 18 6. 0 2 0—July, 1860 | 6400 Goorberrow | (copper), St. Cleer. 3 15 | | 100 W. Bryn Gwlog (ld.) [L. £20] 10000 West Clogau (gold) | |
| FOREIGN MINES. | 486 Gramb. & St 5000 Great Briga | opper), St. Neot 1 2 6 t. Aub. (cp.) [S.E.] 57 0 6 an (copper) 6 1 (lon (cop.), St. Ive. 2 4 0 ed. [7200 30s.pd., 2800 50s.pd. | | 4216 W. Great Work (tin), Germoe | 15 6 Fully |
| Burra Burra (cop.), South Australia. | 10000 Great Carad 10000 Gt.Dev.& Bd 15000 Great Laxes | lon (cop.), St. Ive. 2 4 0 ed. [7200 30s.pd., 2800 50s.p y (lead) [L.] 4 0 (| d.] [L.] Fully paid. | 6000 W. Grylls (tin), Perranuthnos 2000 W.Marla & Fortescue, Lamerton 9000 West Par Con. (op.)St. Blazey 1024 West Penstruthal | 2 6Aug. |
| Copiapo Mining Company, Chill [8, E.] 16 0 0 6 18 0. 0 10 0—Nov. 1862 | 5000 Great North 6000 Gt. Retallac 52000 Great Trego | h Downs (copper). 3 0 0 k (silld.,blende) 2 1 6 ine Consols (cop.). 0 5 | os 78 78une, 1000 | 1024 West Penstruthal | 8 2 6 — |
| Fortuna (lead), Spain [L.] [S.E.] | 8730 Great Whea 8000 Gt.Wh. Bus 119 Great Work | al Baddern (tin) 6 16 0 sy (cop., tin), Ken. 15 14 6 t (tin), Germoe 100 0 0 | | 1024 West Penstrutnai 1600 W. Rose Down (cop.), Caradon 256 West Sharp Tor(cp.) Rillaton. 15: 1056 West Stray Park(cop.), Camb. 512 West Tolgus (cop.), Redruth. 3 5120 W. Tolwadden (cop.), Marazion 1611 West Torgus (fin. cop.) | 1 6. — |
| Linares (id.), Pozo Ancho, Spain [S.E.] 3 0 0 | 5000 Grosvenor(1 4910 Gurlyn (cop 6068 Gwydyr Par | id.)[2500£1pd.,25007s.pd.] p., tin), St. Erth 2 5 5 rk Con., Llangust 0 19 0 | — | 512 West Wh. Frances (cop.), Illo. 8 | 4 5 0 Aug. |
| Lusitanian (of Portugal) [S.E.] | 6400 Harwood (16 7219 Hawkmoor (6000 Hingston Do | d.),Durham[L.£1] 0 5 6 (tin,cop.)Calstock 3 2 0 own (cop.), [S.E.] 5 8 6 | | 6000 Wheal Agar (copper), Illogan | 4 9 6. 3% 3% 3% July, |
| Unit. Mexican(sil.), Mexico(S.E.]Av. 28 8 0 — | 6000 Holmbush 6 6000 Holmbush 6 5000 Holmbush 6 | 5000.65 2s. pd., 5000 15s. pd. and copper) 0 10 0 | | 5000 Wheal Annie (cop.), Gwinear 5990 Wh. Arthur (cop.), Calstock. 6000 Wheal Caradon (copper) | 13 0 — Bept. |
| FOREIGN MINES WITH DIVIDENDS IN ABEYANCE. | 6000 Keswick (le 6000 Lady Berths | ad), Portinscale . 5 6 6 a (cop.) [S.E.] . 2 12 0 | 1% 1½ .Aug. 1863 .— | 5000 Wheal Annie (cop.), Gwinear 5990 Wh. Arthur (cop.), Caistock. 6000 Wheal Caradon (copper) 1000 Wheal Crotty (cop.), Crowan. 6000 Wheal Crotty (cop.), Tavistock 1 6000 Wheal Crotty (cop.), Tavistock 1 612 Wh. Damsel(ep., tin), Gwennap 3 4096 Wh. Edward (cop.), Calstock. 4096 Wheal Emily Henrietta (cop.), 4000 Wheal Emily Henrietta (cop.) 6000 Wh. Emma(cp) Buckfastleigh 2000 Wheal Faimouth & Sperries. 6000 Wh. Grenville (copper)[S.E.] 5120 Wheal Hartiet, Camborne. | 7 0 33s31s. 33sJaly, |
| AltenandQusnangenUni.(cop.)[L.£5] 4 10 0 4 5 0 0 15 0—Nov. 1853 06. BarrierLand,Min.,&c., N.Ze. [L.£5] 4 10 0 15 per cent. —May, 1859 Pontgiband (alilend), France [S.E. 120 0 0 10 0 1 0 0 1 0 0 10 0 June, 1855 | 963 Lelant Cons. 240 Llangan (ld. | .(tin), Uny Leiant 35 0 0 .), Glamor. [L.£25]15 0 0 | | 512 Wh. Damsel (ep., tin), Gwennap St 4096 Wh. Edward (eop.), Calstock. | 18 6. — Jaly. 0 0 8 234 3 July. |
| NON-DIVIDEND FOREIGN MINES. | 2000 Long Rake (2000 Lower Park | (tin), Uny Lelant 35 0 0 0.), Glamor. [L.£25]15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | . 5 . 4 5 .Aug. 1868 .Sept. 1868 | 4000 Wh. Emma(cp)Buckfastleigh | 15 0 — |
| Vines. Paid. Last Pr. Bus done Last Call | 6000 Maudlin (co 4480 Merllyn (lea | rws (slate) [L.] 2 10 0 ppper) 3 17 0 ad), Flint 8 18 0 | | | |
| Alasmillos (lead), Spain L. #2] | 3475 Michell (lea 1024 Mill Pool (o | (lead) [L.] 0 12 0 ad), Flint 0 5 6 copper) 15 15 0 | | | |
| Cape Copper Mining Company [L. £10] | 1024 Nangiles (ti 4000 Nanteos (sil | p.), S. Moulton 2 9 6 in, copper), Kea 14 0 0 lld.), Llanbardan — | . 271425 2714July, 1863 | 6000 Wh. HATTS (1d.: cop., Litton (1024 Wheal Haster (tib), Bodmin. 2048 Wheal Hope (silid.), Perran 26000 Wheal Hda (silidad), St. Ive. (968 Wheal Margery (tin, copper) 18 (1000 Wh. Mary Hutchings (Plymp.) (6000 Wh. Norris (tin,ep.), St. Cleer 2004 Wheal Par (tib) | 2 6 — 3/4 1/4Jan. 13 10. — 8 4April, 5 0 — 25/4May, |
| Clarendon Consols (copper), Jamaica [S.E.] 1 2 6 | 2400 Nant-y-Inco | o (ld.), Merioneth 3 17 6 | July, 1863 | 6000 Wh. Norris (tin,cp.),8t.Cleer 1024 Wheal Par (tin) 1024 Wheal Polmear, 8t. Austell. 10600 Wh. Pollard (cop.),8t. Noot's 2070 Wh. Prosper (cp.,tin), Breage 10 | 19 7 |
| Dun Mountain (copper), New Zealand [L. [8.E.] | 6400 Nether Heat 6400 N. Crow Hill 6000 New E. Bir | il (ld.), St. Stephen 2 8 6 | 1% % 1%Feb. 1863 | 6000 Wh. Pollard (cop.), St. Neot's 2 970 Wh. Prosper (cp., tin), Breage 12 1024 Wheal Prosper (tin), Lanivet 6 | 16 0 — |
| Elber Colliery Company, Bohernia [L.] | ARRA Morrow Mr. SECT. | Description O & C | —Oet. 1862 2 —Aug. 1863 —May, 1863 | 1024 Whenl Prosper (tin), Lanivet (5000 Wh. Prudence St. Ag. [L. £1] (240 Wh. Reeth (tin), Uny Leiant 96 500 Whenl Sarah (tin), Lanivet | 10 0 — |
| Great Northern (copper), North Australia [L. 2015 2 1 100 | 6000 New S. Cara 6000 New Trelei | a (tin, cop.), Breage 1 10 0 oke (tin and cop.), 0 6 6 idon (cop.), St. Cleer 0 10 6 gh Cons., Redruth 1 18 0 | . — | 1024 Wh. Sicily(silld.), Broadoak 4 4096 Wheal Sidney(tin), Plympton | 17 6 |
| Lagunaro (sulphur, comper), Portugal (L.) | 1024 New Wendr 1024 New Wh. Gr | on (tin) 7 0 0 rylls (tin and cop.) 2 1 6 | . 5½ July, 1863 . Jan. 1863 . Jan. 1863 . May, 1863 . Sully paid. Fully paid. | 1024 Wh. Stolly (sin. sto.), Stokedak 4096 Wheal Sidney (tin.), Plympton 4 2048 Wh. Sithney & Carnmeal Uni. 9 1024 Wheal St. Andrew (copper). 5 512 Wh. Trannack (tin.), Sithney 3 6000 Wheal Union (cop.), Redruth 4 6000 Wh. Unity (cop., tin.), Gwinear 12 | 13.0 4½ 4 4½Aug. 0 0 |
| Montes Aureos (gold), Brasil [L.] [S.E.] 2 0 0 3 2½ 3 Fully paid. New Burra Burra (copper) (Australia) 5 0 0 3 2½ 3 Fully paid. New Granda (gold), South Amorries [S.F.] | 400 New Wh. Se | eton) cop.), Camb. 25 5 0 | 3 2½ 3Fully paid. 3. — Nov. 1862 June, 1863 | 6000 Wheal Union (cop.), Redruth 4 6000 Wh.Unity(cop.,tin), Gwinear 12 4096 Wh. Uny (tin,cop.), Redruth 9 | 5 0 — |
| New Grand Duchy of Baden (silver-lead), near Freiburg . 1 0 0 . — Fully paid. North Rhine Copper of South Australia [L. £1] [S.E.] | 2500 N.Wh.Vadd | lon(tin), Marasion 1 8 0 or (cop.), Redruth. 24 12 6 d (cop.), Gwennap 0 5 0 n (silld.) [L. £1] 0 12 0 | 5 4 5 Aug. 1863 Nov. 1860 | 4096 Wh. Uny (tin, cop.), Redruth 9 4500 Wheal Vlow (copper) 6 1024 Wh. Vyvyan (cop.), Constantine 7 6000 Wheal Welcome (tin, copper). 1 | 0 0 aa aaApis |
| 0 Nova coolia (inida and gold) [L. £2] 1 0 0 - Nov. 1862 0 Pachuca Silver Mining Company, Maxico [L. £1] 1 0 0 - June, 1863 0 Quebrada (copper), Venezuela [L. £10] 1 0 0 - June, 1863 0 San Roque (copper), Sanin June, 1863 | 20000 North Devoi 5000 N. Dolsoath 6000 North Down | n (silld.) [L. £1] 0 12 0 (cop.), Camborne 2 18 6 ns (cop.) Redruth 2 8 4 | 2 21/4July, 1863 | 6400 Whitford (lead), Holywell 10 944 Worvas Downs (tin), Lelant. 7 3097 Yarner (copper), Devon 3 | 7 0 June |
| 0 San Roque (copper), Spain | | | the country with an indicate the same of the country of the countr | change. Those mines with [L.] appe | THE RESERVE OF THE PERSON OF T |
| 00 Montes Aureos (gold), Brasil [L.] [3, £.]. 2 0 0 3 2½ 3 Fully paid. 00 New Burna Burna (copper) (Australia). 5 0 0 | Salt Operations to | seing to make the Shees Ta | | ability. | rwarding any alterations of |
| NO THUMBER (1914), 1149 [L. El] | a car onless p | and the many sure purise Pl | Sources, we continued the own in | at who mave the power, to aid us, by 10 | and and all and and and |